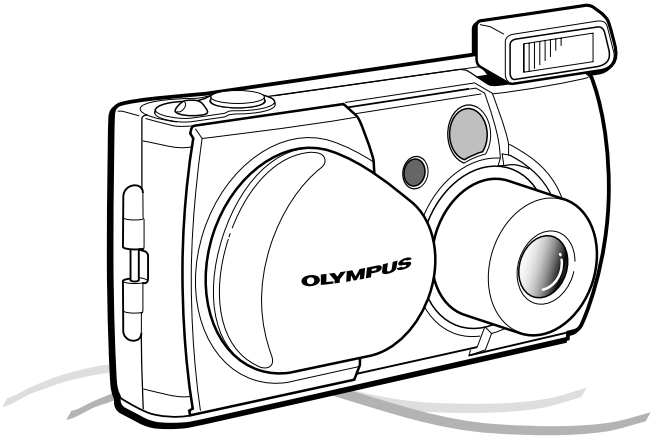
OLYMPUS®

CAMEDIA

DIGITAL CAMERA

C-1Zoom
D-150Zoom

Reference Manual



- **Thank you for purchasing this Olympus digital camera.**
- **Before using your new digital camera, please carefully read this Reference Manual and separately provided "Safety Precautions" and "Battery Handling Precautions".**
- **We recommend that you take test shots to make sure that the camera functions properly before taking important photographs.**

Read the Following Before Use

This section provides important information about using this digital camera. Before using the camera, please be sure to read the following.

About this manual

- The information contained in this manual may be subject to change without notice. For the latest information on the product names, model numbers, etc., please consult authorized Olympus service center.
- The information contained in this manual has been compiled by taking all possible measures to ensure its accuracy. However, if you find any errors or incomplete information, please contact authorized Olympus service center.
- It is prohibited by copyright laws to duplicate in part or in whole the information contained in this manual, except for personal use. Reproduction without permission of the copyright owner is prohibited.
- Olympus will not assume any liability for damages, loss of profit or claim from a third party due to improper use of this product.
- Olympus will not assume any liability for damages and loss of profit due to loss of image data resulting from servicing by a third party who is not designated by Olympus or from other causes.
- The quality of the images shot with this product differs from that of the images shot with ordinary film-based cameras.

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Radio and Television Interference

Change or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Adjust or relocate the receiving antenna.
- Increase the distance between the camera and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Only the USB cable should be used to connect the camera to a personal computer (PC).

Declaration of Conformity

Model Number:	D-150Zoom
Trade Name:	OLYMPUS
Responsible Party:	Olympus America Inc.
Address:	2 Corporate Center Drive, Melville, New York 11747-3157 USA
Telephone Number:	631-844-5000

Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

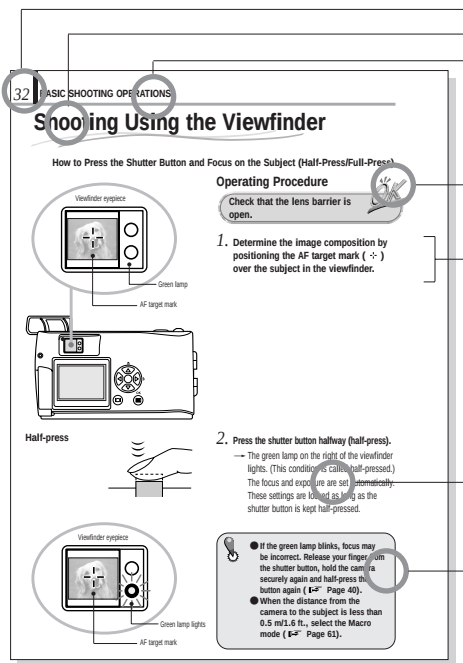
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection.

Trademarks

- Microsoft products, such as Windows and Internet Explorer, are registered trademarks or trademarks of Microsoft Corporation in the United States of America and in other countries.
- Macintosh and Apple are registered trademarks of Apple Computers, Inc.
- Other brand names and product names mentioned in this manual are trademarks or registered trademarks of their respective owners.
- The DCF (Design rule for Camera File system) is a standard established by JEITA (Japan Electronics and Information Technology Association).

How to Read This Booklet


Page No.
Description title
Chapter title
32 BASIC SHOOTING OPERATIONS
Shooting Using the Viewfinder
How to Press the Shutter Button and Focus on the Subject (Half-Press/Full-Press)
Operating Procedure
Check that the lens barrier is open.
1. Determine the image composition by positioning the AF target mark (⊹) over the subject in the viewfinder.
Viewfinder eyepiece
Green lamp
AF target mark
Half-press
2. Press the shutter button halfway (half-press).
→ The green lamp on the right of the viewfinder lights. (This condition is called half-pressed.) The focus and exposure are set automatically. These settings are locked as long as the shutter button is kept half-pressed.
Viewfinder eyepiece
Green lamp lights
AF target mark
● If the green lamp blinks, focus may be incorrect. Release your finger from the shutter button, hold the camera securely again and half-press the button again (Page 40).
● When the distance from the camera to the subject is less than 0.5 m/1.6 ft., select the Macro mode (Page 61).
Items to check before operation
Operating procedure
Operation result
Supplementary information

[Tip]···Information on convenient capabilities or recommended techniques.	[Warning]···Information on factors which may lead to a malfunction or operational problems. Also warns of operations that should be absolutely avoided.
[In this case]···Information on what to do when a certain message is displayed or in a specific situation.	[Reference]···Reference pages describing details or associated information.
[Caution]···Description of potential problems or of phenomena which may seem to be problems.	[Note]···Additional information such as a remark or proviso.

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Index of Available Operations

This manual is organized by operating procedures, beginning with basic operations and moving forward to more advanced procedures. If there is any particular operation you want to perform, you can use this index to find the page reference for that operation.

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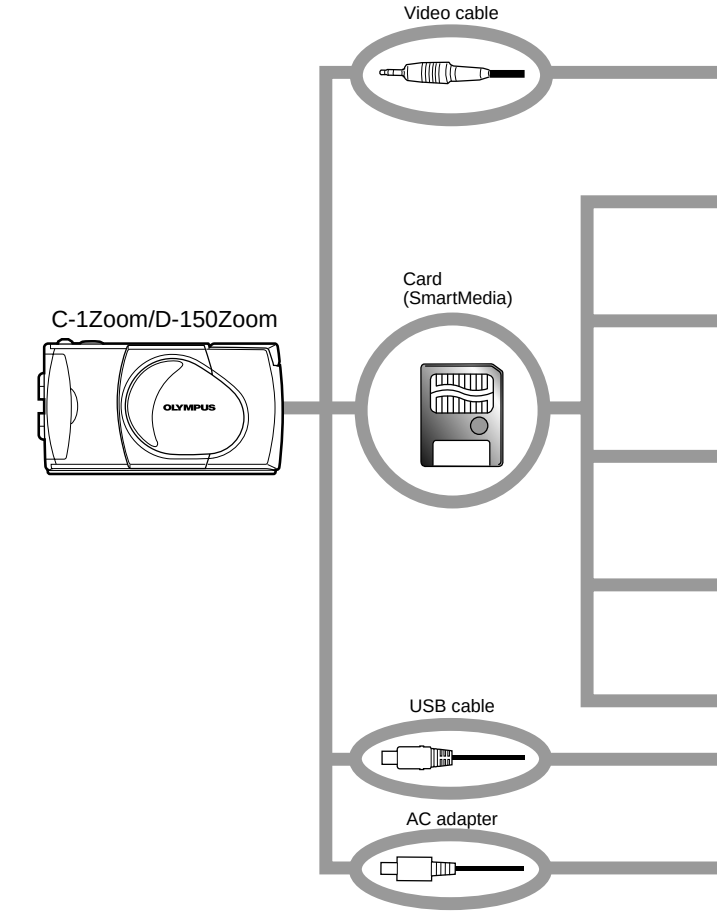
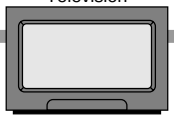
Making the Most of Your Digital Camera



A variety of optional accessories make possible many different ways to view and enjoy the images you shoot with your camera. In some cases, you will need a personal computer to take full advantage of these features.

Television



Viewing images on TV screen

(☞ Page 73)

Digital color printer P-400/P-200/P-330N(E)

(Use a dedicated printer.)

Printing without a PC

(☞ Pages 74-75)

Photo lab

(Bring the SmartMedia card.)

Note: Some photo studios and labs do not handle images shot with a digital camera.

FlashPath floppy disk adapter

(This can be read in a floppy disk drive.)

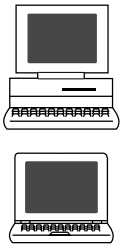
PC card adapter

(This can be read in a PC card slot.)

USB SmartMedia reader/writer

(This can be used when it is connected to the camera's USB port.)

PC



Storing and processing images

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Printing on printer

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Attaching images to e-mail

Using AC outlet power

(☞ Page 72)

Operations Available with This Camera

① Shooting

- Simply press the shutter button to take a picture. Focus, flash, exposure, etc., are taken care of automatically.
- The flash automatically fires as required.
- The image can be confirmed on the monitor as well as in the viewfinder.
- Optical zoom lets you magnify the image up to 3X.
- Digital zoom lets you magnify the image by up to 2X (or up to 6X with the optical zoom).
- The provided 8 MB SmartMedia card allows you to save up to about 24 images*1.
- The SmartMedia card can be used repeatedly by erasing unwanted images.

② Viewing images on the monitor

- Every image can be checked immediately after shooting.
- Multiple images can be viewed sequentially or in sets of 4 or 9 frames.
- Images can be magnified for viewing.

③ Viewing options

- Images can be displayed on a TV screen using the video cable.
- Images can be printed on photographic paper using the optional Olympus P-400/P-200/ P-330N(E) printers. Images can also be printed on ink-jet or laser type printers.
- Images saved on a SmartMedia card can be printed out at a photo lab*2.

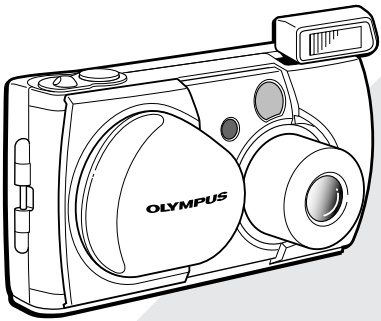
④ Taking advantage of PC features

- Images can be downloaded and stored on a PC via the provided USB cable (when the PC is equipped with a USB terminal).
- Images can be stored on a PC hard disk or on a floppy disk, CD-R or MO disk.
- Images can be processed by a PC in many ways, including text superimposition (comments) or trimming (magnifying or cutting images)*3.
- Images can easily be attached to e-mail messages sent from the PC*3.

*1 When in the HQ Record mode. (HQ is the factory-set mode.)

*2 Some photo studios and labs may not be equipped to print out digital images.

*3 You cannot use this camera to attach and send images via e-mail and to retouch images. To do this, you need some application software on a PC.

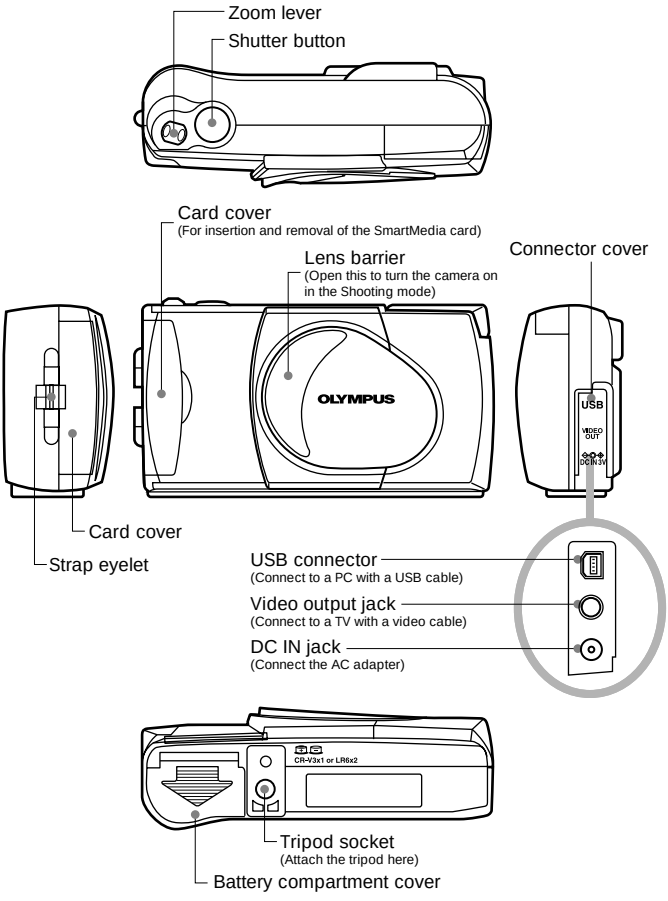


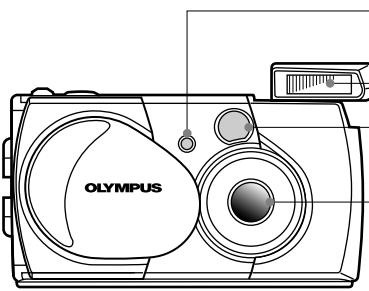
PREPARATION

This chapter describes what you need to do and what you need to know before using the camera. Be sure to make the appropriate preparations to assure safe, enjoyable shooting.

- Names of Parts
- Attaching the Provided Strap
- Loading the Battery
- Selecting the Appropriate Batteries
- Inserting the Memory Card (SmartMedia)
- Selecting the Appropriate Card
- Using a New Card (Formatting)
- Setting the Date and Time
- Holding the Camera

Names of Parts



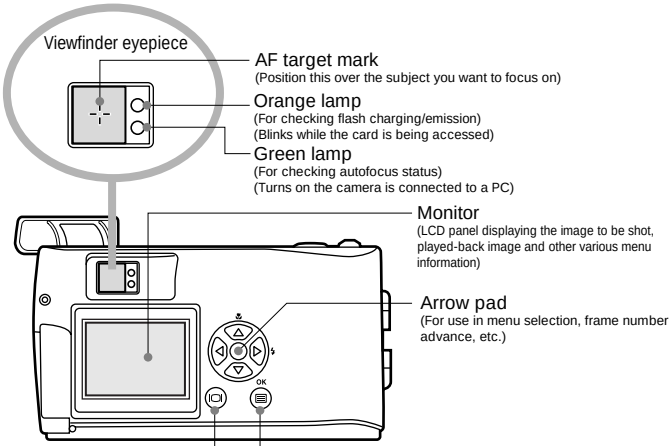


Self-timer lamp
(Indicates activation of the self-timer)

Flash
(Pops up automatically when you open the lens barrier. Push it down after you close the lens barrier)

Viewfinder

Lens
(Comes out automatically when you open the lens barrier)



AF target mark
(Position this over the subject you want to focus on)

Orange lamp
(For checking flash charging/emission)
(Blinks while the card is being accessed)

Green lamp
(For checking autofocus status)
(Turns on the camera is connected to a PC)

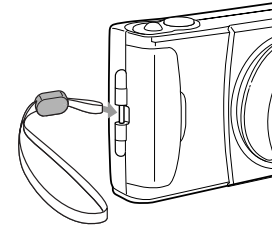
Monitor
(LCD panel displaying the image to be shot, played-back image and other various menu information)

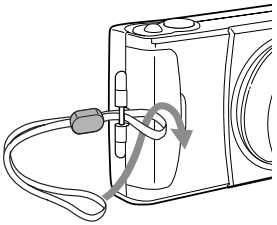
Arrow pad
(For use in menu selection, frame number advance, etc.)

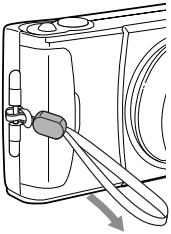
OK/menu button
(Switches the menu screens or settings)

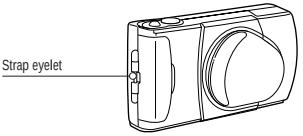
Monitor button
(Switches the monitor display and the Playback mode ON/OFF)

Attaching the Provided Strap





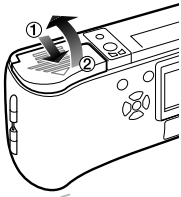


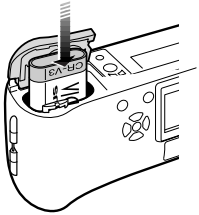


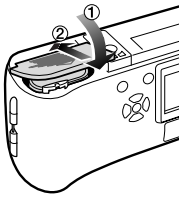
1. **Attach the strap as shown.**

Attach the strap correctly as instructed above. Olympus cannot warrant or assume any liability for damage resulting from the camera being accidentally dropped because the strap has not been attached correctly.

Loading the Battery







Check that the lens barrier is closed and nothing is displayed on the monitor.

1. **Slide the battery compartment cover in the direction of the arrow ①.**
2. **Lift the battery compartment cover in the direction of the arrow ②.**
3. **Insert the battery in the direction shown in the figure.**
4. **Close the battery compartment cover in the direction of the arrow ①.**
5. **Press the battery compartment cover in the direction of the arrow ② until it clicks.**

   → The battery compartment cover is now locked.

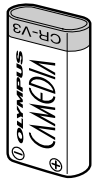
If the battery compartment cover will not close easily, do not force it. Try sliding it toward " ".

Note For information on what types of batteries can be used, see "Selecting the Appropriate Batteries" on the next page and separately provided "Battery Handling Precautions".

Selecting the Appropriate Batteries

■ Lithium battery pack

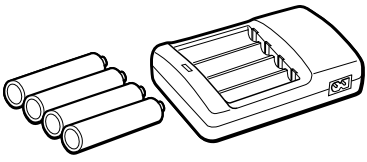
● The CR-V3 lithium battery pack (Olympus LB-01) features a long service life, lasting many times longer than conventional batteries, offering great convenience when traveling.
Insert the battery pack correctly.

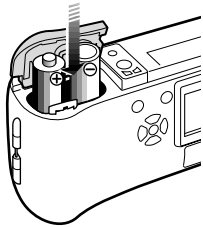


The lithium battery pack is not rechargeable.

■ Rechargeable batteries

● The NiMH batteries from Olympus (including battery charger) are rechargeable and economical. You can recharge them quickly.
Insert the batteries in the correct directions shown below.





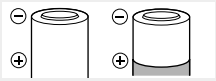
■ Alkaline batteries

● If your battery pack's power runs out, you can replace it with R6/AA alkaline batteries which are easily available anywhere.
● When alkaline batteries are used, the number of shootable images varies widely depending on the brand and operation environment. Turn off the monitor whenever you are not taking pictures, or use the viewfinder to take pictures.
● When you view the monitor to take pictures, the battery life could be extremely short. This is not malfunctioning: Turn off the monitor and continue to take pictures using the viewfinder.

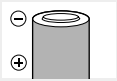
- **CR-V3 lithium battery packs cannot be charged.**
- **Alkaline batteries have a lot of variation in their performance and deteriorate particularly at low temperatures. It is recommended that lithium battery packs or NiMH batteries be used.**
- **Zinc-carbon (manganese) batteries and R6/AA lithium batteries cannot be used. Please read the separately provided "Battery Handling Precautions".**
- **If the terminals inside the battery compartment are dirty, it will noticeably shorten the life of the batteries. Do not touch the inside of the battery compartment.**
- **If the camera is left for about 1 hour with the batteries or battery pack removed, the date/time setting will revert to the default setting.**
- **Be sure to turn the camera off before replacing the batteries or battery pack. Removing the batteries or battery pack (or unplugging the AC adapter) while the camera's power is on may reset the date/time settings.**
- **An alarm could sound if exhausted batteries are left in the camera for long. Replace the batteries with new ones in this case.**

Do not use batteries whose exterior is not completely covered by an insulating sheet. If such batteries are used, they may cause leakage, excessive heat, or explosion. Some batteries are sold with a partial insulating sheet, or without any insulating sheet at all. Do not use these batteries under any circumstances.

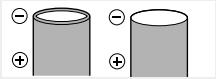
The following R6/AA batteries cannot be used



- Batteries whose exterior is only partially covered, or not covered at all, by an insulating sheet.

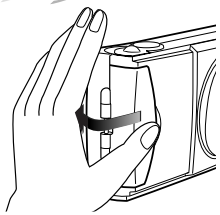


- Batteries whose ⊖ terminals are raised, but not covered by an insulating sheet.



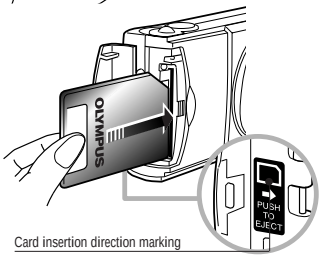
- Batteries whose ⊖ terminals are flat and not completely covered by an insulating sheet. (Such batteries cannot be used even if the ⊖ terminals are partially covered.)

Inserting the Memory Card (SmartMedia)



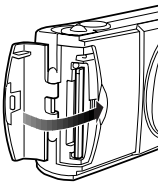
Check that the lens barrier is closed and nothing is displayed on the monitor.

1. **Open the card cover.**



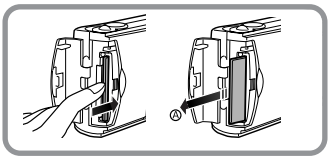
Card insertion direction marking

2. **Insert the card in the direction shown in the figure. Insert the card completely until a slight click is heard and the card is locked in place. The insertion direction is indicated on the seal inside the card cover.**



3. **Close the cover securely until it clicks.**

→ Now the camera is ready for shooting.



To remove the card:
Press the card gently. When the card ejects slightly, pull out the card straight out as shown in the direction of Ⓐ.

Never attempt to open the card cover or remove the card or batteries while the camera power is on. Otherwise, the image data on the card may be destroyed. Remember that it is impossible to restore image data once it has been destroyed.

A card is a precision device. Do not apply excessive force or shock to it. Hold the card by the edges. Do not touch the gold-colored metallic parts.

Selecting the Appropriate Card

Prepare another card.

- **When you expect to shoot a large number of images (while traveling, on special occasions, etc.), it is a good idea to bring an extra card (in addition to the provided 8 MB card).**
- **The number of images you can shoot varies according to the card capacity and Record mode used. Select a suitable card by referring to the following table.**

Numbers of Images You Can Shoot (Approximate Numbers)

Record Mode	SQ (Standard Quality)	HQ (High Quality)	SHQ (Super-High Quality)
SmartMedia capacity \ Image size (pixels)	640 X 480	1280 X 960	
8 MB	82	24	8
16 MB	165	49	17
32 MB	331	99	35
64 MB	664	199	71
128 MB	1331*	399	142

*"999" is displayed on the monitor when the number of shootable images exceeds 999.

The commercially available 5 V card cannot be used with this camera. Use the Olympus brand card or a commercially available 3 V (3.3 V) card.

Unusable cards

This camera may not be able to recognize a card that is not manufactured by Olympus or Lexar or a card which has been formatted on another device such as a PC. To avoid problems, you should format each card before using it on this camera.

Using the Three Record Modes

SQ: Select this mode when you want to attach the image to e-mail, simply view it on your PC screen, or want to shoot more images per card.

HQ: Select this mode when you need image quality in between SQ and SHQ. Images can be enlarged to a certain degree when they are viewed on a PC screen. (This is the default recording mode.)

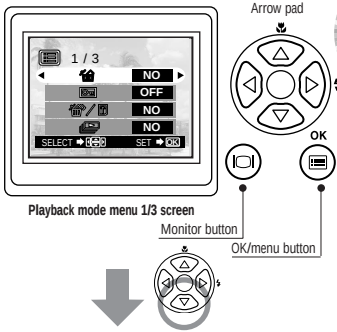
SHQ: Select this mode when you want to print the image with high quality or a large size or to retouch it on your PC.

Note

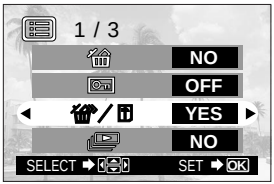
- For details on the Record modes and how to select them, refer to "Selecting the Image Quality" (☞ Page 54).
- The number of shootable images is also variable because the data quantity per image is variable depending on the shot subject.
- The image counter may not decrement when an image is shot and may not increment even when an image is erased.
- Cards with a capacity of 4 MB or more can be used with this camera.
- For details on handling your card, refer to the instructions provided with it.

Using a New Card (Formatting)

Before using a non-Olympus card or a card which has been formatted or used with devices other than this camera (such as a PC), be sure to format the card on this camera.



Playback mode menu 1/3 screen



Playback mode menu 1/3 screen

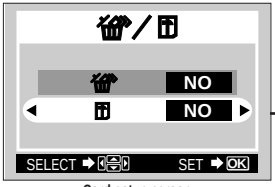
Operating Procedure

Check that the camera is set to the Playback mode (Page 42) by holding down the monitor button for a moment.

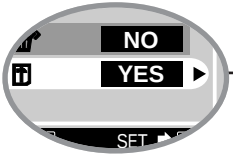
1. **Press the OK/menu button.**
   → The monitor shows the Playback mode menu 1/3.

2. **Press the △ or ▽ arrow pad key to select / .**
   → The display changes to "YES".

3. **Press the OK/menu button.**
   → The card setup screen is displayed.



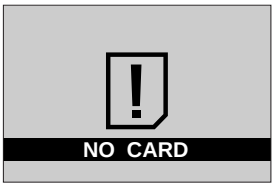
Card setup screen



4. **Select by pressing the ▲ or ▼ arrow pad key, and then select "YES" by pressing the ◀ or ▶ arrow pad key.**
To return to the Playback mode menu, select "NO" and press the OK/menu button.

5. **Press the OK/menu button to execute formatting.**

→ The orange lamp on the right of the viewfinder blinks and the monitor shows a bar indicating the processing status. When formatting ends, the indicator "NO PICTURE" is displayed.



Warning monitor display

Note If you are using an optional Olympus card, you can use it without formatting.

If the display shown on the left appears on the monitor, the card needs to be formatted.

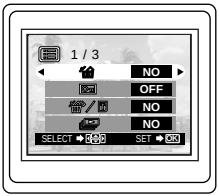
Check the following before formatting

- **Formatting erases all images on the card including those which are protected. When formatting a previously used card, take care not to erase necessary image data. Once the card has been formatted, images previously stored on that card cannot be restored.**
- **A card with a write protect seal attached to it cannot be formatted. Remove the seal before formatting it. Do not reuse the removed write protect seal.**
- **Once formatting has started, it cannot be canceled midway.**

Setting the Date and Time

Operating Procedure

Check that the camera is set to the Playback mode (Page 42) by holding down the monitor button for a moment.



Playback mode menu 1/3 screen

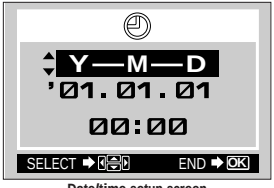
1. **Press the OK/menu button.**
   → The Playback mode menu 1/3 is displayed on the monitor.

2. **Press the △ or ▽ arrow pad key to display the menu 3/3, and select .**

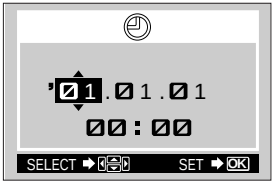
Playback mode menu 3/3 screen

3. **Display the date/time setting menu by pressing the ◁ or ▷ arrow pad key.**

4. **Select one of the following date/time display formats by pressing the △ or ▽ arrow pad key.**
   Y—M—D (Year·Month·Day)
   M—D—Y (Month·Day·Year)
   D—M—Y (Day·Month·Year)
   Then press the ▷ arrow pad key.
   → The cursor moves to the figure setting field.



Date/time setup screen

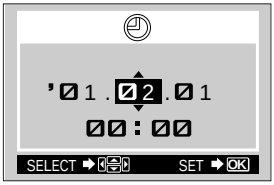


Date/time setup screen

5. **Set the first figure by pressing the △ or ▽ arrow pad key, and then press the ▷ arrow pad key.**

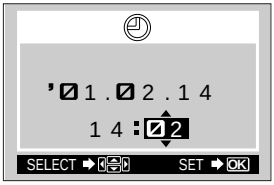
→ The cursor moves to the next figure.

6. **Repeat the above steps to set the hour and minutes.**



Date/time setup screen

Note The default year setting is " '01 " (indicates the year 2001).



Date/time setup screen

7. **When the actual time reaches zero seconds, press the OK/menu button.**

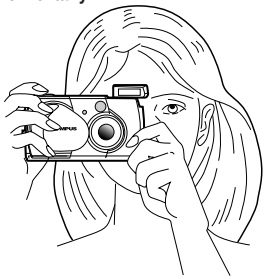
→ The date and time are set and the screen returns to the Playback mode menu 3/3.

When the batteries are removed or battery power is exhausted, a screen prompting you to set the date and time will appear on the monitor. In this case, set the date and time before shooting.

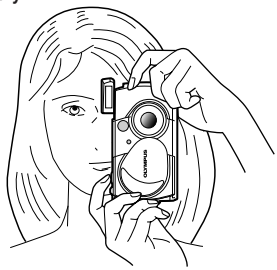
Note The date and time can be set in the Shooting mode menu.

Holding the Camera

Horizontally



Vertically



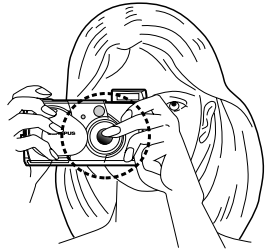
The right way to hold your camera:

Hold the camera with both hands and keep your elbows tight to your body.

Hold the camera firmly with your right hand and press the shutter button gently.

Pay attention to the following when holding your camera:

Make sure you don't block the lens or the flash with your finger or the camera strap.



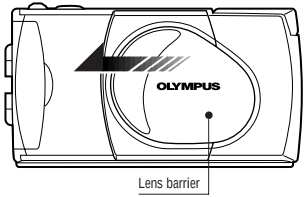
Clear images cannot be obtained if the camera shakes as the shutter button is pressed. Hold the camera correctly, and press the shutter button gently.

BASIC SHOOTING OPERATIONS

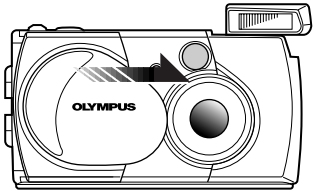
This chapter describes the basic shooting operations you need to remember when using the camera. Although the information given in this chapter is enough to get you started, we encourage you to read the chapter entitled "ADVANCED SHOOTING FEATURES" so that you will be able to take advantage of the many exciting possibilities offered by your camera.

- Shooting Pictures
- Shooting Using the Viewfinder
- Shooting Using the Monitor
- Deciding Whether to Use the Viewfinder or Monitor According to Working Distance
- Checking the Camera Status Indication Next to the Viewfinder or on the Monitor (in Shooting Mode)
- If Correct Focus Cannot Be Obtained (Focus Lock)

Shooting Pictures



When starting shooting



When ending shooting

1. **To start shooting:**
   Open the lens barrier until the flash pops up.
   → The camera turns on, and the lens comes out.

2. **To end shooting:**
   Close the lens barrier.
   → The camera turns off. Press the flash down with a finger.

To save battery power

Sleep mode:

When no operation is performed for 1 minute with the lens barrier open, the camera enters the Sleep mode. This mode reduces the consumption of battery power, and automatically switches off the monitor.

To resume shooting, do any one of the following:

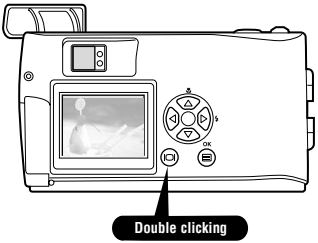
- Press the shutter button gently.
- Close the lens barrier and open it again.
- Press any of the arrow pad keys, ⊜ OK/menu button, ⊡ monitor button or zoom lever.

Note

- Images stored on the card are saved even after the camera turns off or the batteries are replaced.
- Try to minimize power consumption as much as possible if you don't expect to use the camera for a while. Turn the power off by closing the lens barrier.
- When you close the lens barrier, slide it a little toward the lens. After the lens goes in, close the lens barrier.

Never attempt to open the card cover or take out the card or battery while the camera power is on. Otherwise, the image data on the card may be destroyed.

● **To view a recorded image immediately after it has been shot while the lens barrier is open (Quick-View Playback):**



1. **Press the monitor button twice (double clicking).**

→ This switches the camera to the Playback mode; the image is displayed on the monitor (☞ Page 42).

2. **Press the shutter button or monitor button.**

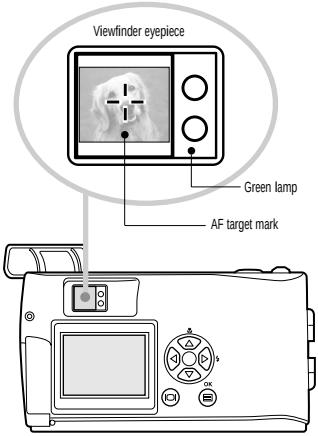
→ This returns the camera to the Shooting mode; you can resume shooting.

3. **Close the lens barrier.**

→ The monitor and camera turn off.

Shooting Using the Viewfinder

How to Press the Shutter Button and Focus on the Subject (Half-Press/Full-Press)

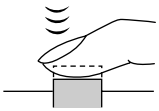


Operating Procedure

Check that the lens barrier is open.

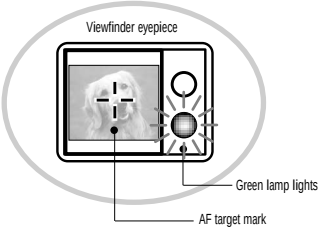
1. **Determine the image composition by positioning the AF target mark (⊹) over the subject in the viewfinder.**

Half-press



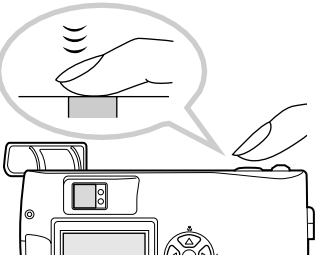
2. **Press the shutter button halfway (half-press).**

→ The green lamp on the right of the viewfinder lights. (This condition is called half-pressed.) The focus and exposure are set automatically. These settings are locked as long as the shutter button is kept half-pressed.



- **If the green lamp blinks, focus may be incorrect. Release your finger from the shutter button, hold the camera securely again and half-press the button again (☞ Page 40).**
- **When the distance from the camera to the subject is less than 0.5 m/1.6 ft., select the Macro mode (☞ Page 61).**

Full-press

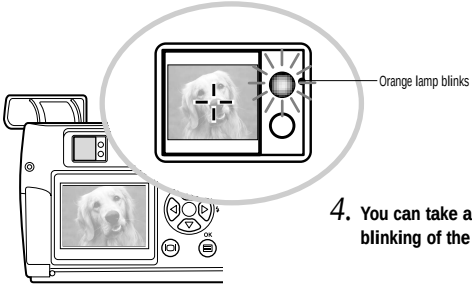


3. Press the shutter button all the way (full-press).

→ The camera takes the picture and two short beep tones are generated.

→ The orange lamp on the right of the viewfinder blinks (to indicate that the image is being recorded on the card) for a moment and then goes out.

→ When you take a picture, it is displayed on the monitor for a short time.

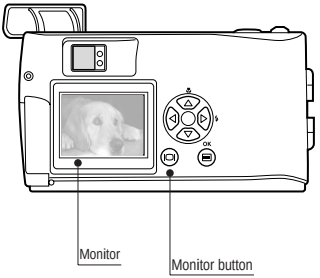


4. You can take another picture when blinking of the orange lamp ends.

- **Always press the shutter button gently. If you press too hard, the camera may move and the image will be blurred.**
- **If you take another shoot, wait for a few seconds until the orange lamp goes out before retrying shooting.**
- **The blinking orange lamp indicates that the image you just shot is being processed.**
- **After the flash emits, the orange lamp blinks first rapidly then slowly. The orange lamp blinking slowly indicates that the flash is being charged. When you shoot under low light or against back light, wait until the orange lamp stops blinking.**
- **The length of time required before the camera is ready for the next shot and the number of images that can be shot vary depending on the Record mode.**

Never attempt to open the card cover or take out the card or batteries while the orange lamp is blinking quickly. Otherwise, the image you have just shot will not be saved. Existing data on the card may also be destroyed.

Shooting Using the Monitor



Operating Procedure

Check that the lens barrier is open.

1. **Press the monitor button.**
   → The monitor turns on.
2. **Determine the image composition by observing your subject in the monitor.**
3. **Half-press the shutter button to focus on the subject, and then press it all the way to take the picture. (This operation is identical to the Shooting Using the Viewfinder) (☞ Page 32).**
   → The orange lamp on the right of the viewfinder blinks for a moment while the image is being written to the card and then goes out.

Note
- Oblique lines on the subject may appear as zigzag lines on the monitor, but this is not malfunction.
- Vertical stripes may appear in the monitor image if it is shot under bright conditions (such as a sunny sky). This is not a malfunction.
- The image displayed on the monitor is intended for use in checking the composition and does not show the correct focus and exposure conditions. Image focusing and exposure should be checked on a TV or PC screen after shooting (☞ Page 73).

Do not apply excessive force to the monitor and the area around it. Doing so could cause the displayed image to blur and may also damage the monitor.

Deciding Whether to Use the Viewfinder or Monitor According to Working Distance

Snapshot, landscape, etc. (approx. 1.5 m/4.9 ft. to infinity)

Use the viewfinder

Hold the camera securely, keeping your upper arms pressed close to your body, to prevent camera shake.

Close-up of a person (approx. 0.5 m to 1.5 m/1.6 ft. to 4.9 ft.)

Use either the viewfinder or monitor

Close-up images can usually be shot using the viewfinder, but using the monitor may be advantageous in certain cases. See the column on the next page for details.

Very short distance (0.2 m to 0.5 m/8 in. to 1.6 ft.)

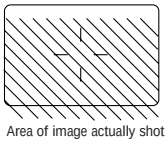
Use the monitor (Macro mode)

When the subject is closer than 0.5 m/1.6 ft., use the Macro mode (☞ Page 61). Shooting without using the Macro mode is also possible, but correct focus may not be possible.
The image area shown in the viewfinder is slightly different from the image area that is actually recorded. When shooting a close-up, confirm the image on the monitor.

When the subject is closer than 0.5 m/1.6 ft. in Normal mode or 0.2 m/8 in. in Macro mode, the camera does not take the picture even if you press the shutter button all the way (full-press). In this case, stand back a short distance.

Features of the viewfinder and monitor

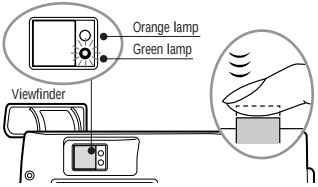
	Viewfinder	Monitor
Advantages	Camera can be held more steadily and the subject can be seen clearly even in bright surroundings. Also, less battery power is required.	The actual area of the image (as it will be shot) can be confirmed.
Disadvantages	The image area in the viewfinder may be different than that of the actual picture when the distance from the subject is short.	The camera tends to shake more easily and the image will not be so clear when the surroundings are bright or dark. Also, battery power consumption is high.
Applications	Easy shooting of multiple snapshots or landscape images, etc.	Accurate shooting by checking the area that will be actually be captured when you take the picture. The monitor is switched on automatically when the Macro mode (☞ Page 61) is used.



- With the viewfinder, the area of the image actually shot is larger than the area observed in the viewfinder.
- As shown is the figure, the area of the image actually shot may differ slightly from the area observed in the viewfinder when the working distance is short.

For best results, use the Macro mode (☞ Page 61) when the subject is located at a distance of less than 0.5 m/1.6 ft. from the camera. Shooting is possible without using the Macro mode, but in some cases correct focus and exposure may not be achieved.

Checking the Camera Status Indication Next to the Viewfinder or on the Monitor (in Shooting Mode)



Operating Procedure

Check that the lens barrier is open.

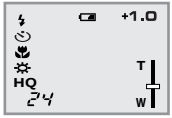
Half-press the shutter button.

→ The lamps on the right of the viewfinder light or blink.

❶ Indication lamps on the right of the viewfinder

Lamp Status	Camera Status	Meaning/Note
When the green lamp is lit	Autofocus is locked.	Press the shutter button all the way to take the picture.
When the green lamp is blinking rapidly	• The camera cannot focus on the subject. • This may be due to one of the following.	You can press the shutter button and take the picture, but the subject may not be in focus.
<Check> The card is not ready in the following cases: ● When no card is inserted in the camera. ● When the write protect seal is attached to the card. ● When the card cover is open. ● When the card does not have enough space to store the image.		
When the orange lamp is not lit	The flash has been recharged.	Shooting is possible by pressing the shutter button all the way.
When the orange lamp is lit	The flash is ready and will fire.	Press the shutter button all the way to start shooting with automatic flash.
When the orange lamp blinks slowly	The flash is being charged.	Release your finger from the shutter button, and wait until the orange lamp goes out.
	The flash is necessary, but it is set off ( ).	Set the flash to Auto or .
When both green and orange lamps blink slowly	Battery power is exhausted.	Replace the batteries with new ones.
When the orange lamp blinks rapidly	The camera is writing to or reading from the card.	Do not open the card cover or remove the battery.

❷ Monitor



When the monitor is turned on by pressing the monitor button, the information displays on the left are shown on the monitor.

No. of images that can be shot	888	Shows the approximate number of images you can shoot.
Battery status	(Green)	Remaining battery power is sufficient. (The display goes out automatically.)
	(Red)	The remaining battery power is too low. Replace the batteries with new ones. Shooting is possible when the batteries are low, but battery power could run out while the image is being processed.
Record mode *1	**HQ**	Shows the quality of the next image to be shot. The default setting is HQ (High Quality), middle of SQ and SHQ (Page 54).
	SQ	(Page 54)
	SHQ	(Page 54)
Flash mode	Auto (No display)	Auto-Flash *1 (Pages 56-57) The default setting is the Auto-Flash mode. No icon is displayed.
		Red-Eye Reduction Flash *1 (Page 57)
		Fill-In Flash *2 (Page 57)
		Night Scene *2 (Page 58)
		Flash Off *2 (Page 58)
Drive mode *2		Shows that the Sequential Shooting mode is switched on (Page 63). The default setting is the Single-Frame mode, which is not displayed on the monitor.
		Shows that the Self-Timer mode is switched on (Page 62). The default setting is no self-timer.

Exposure compensation *2	+1.0	Shows the amount of exposure compensation (Page 65). The default setting is no exposure compensation.
Macro mode *2		Shows that the Macro mode is switched on (Page 61). The default setting is normal shooting.
Digital zoom *2		Shows the Digital Zoom mode, with "T" indicating telephoto zoom and "W" indicating wide-angle shooting (Page 60). The default setting is no digital zooming.
White balance *2	Auto (No display)	Shows the use of the white balance control feature which adjusts the color tone of the image (Pages 67-68). The default setting is Auto control.
		Clear Sky (Page 68)
		Cloudy Sky (Page 68)
		Incandescent Lighting (Page 68)
		Fluorescent Lighting (Page 68)

*1 When you change the setting, it remains effective after the camera is turned off.
*2 When you change the setting, it returns to the factory setting when the camera is turned off.

Note When the monitor is off, it will turn on if you press the OK/menu button (in Shooting mode only).
Pressing the OK/menu button again turns off the monitor.

- **The timing of the remaining battery power display varies depending on the type of the batteries in use.**
- **When NiMH batteries are used, the battery alarm indicator will start blinking sooner than when a lithium battery pack is used.**

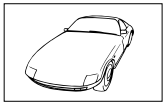
The monitor may also show other indicators such as the "!" indicator. In this case, refer to the error messages listed on Page 93.

If Correct Focus Cannot Be Obtained

(Focus Lock)

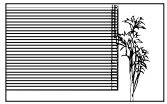
When the camera is pointed at the subjects as shown in the illustrations below, it may be difficult to focus on them with the autofocus function.

The green lamp on the right of the viewfinder blinks. The subject cannot be brought into focus.



Subject with low contrast at the center of the image.

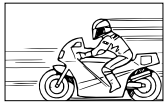
Subject including an extremely bright area at the center of the image.



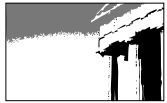
Subject without vertical line.

The green lamp on the right of the viewfinder lights but the subject cannot be brought into focus.

The image area includes subjects located far and those located near.

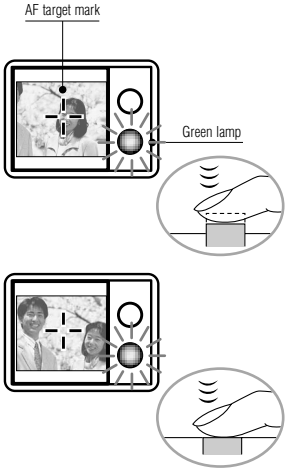


The subject is a fast-moving subject.



The subject to be focused is not located at the center of the image.

Tip: Focus on an object at the same distance as the intended subject (focus lock), and then shoot the image as described below.



Operating procedure of focus lock

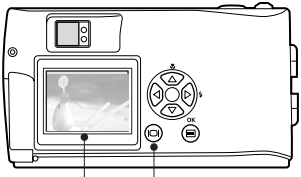
1. **Open the lens barrier.**
   → The camera turns on in the Shooting mode.
2. **Look into the viewfinder and position the AF target mark (⊹) over the subject. When shooting a hard-to-focus subject or fast-moving subject, point the camera at an object about the same distance away as the subject.**
3. **Half-press the shutter button until the green lamp on the right of the viewfinder lights.**
   → The focus is adjusted and locked together with the exposure.
4. **Keeping the shutter button half-pressed, compose your shot, and then press the shutter button all the way.**

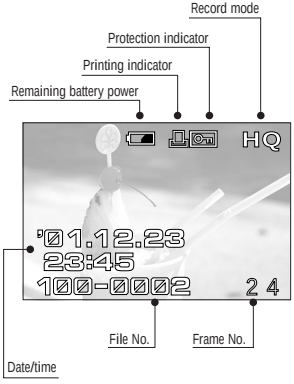
VIEWING OR ERASING IMMEDIATELY AFTER SHOOTING

This chapter describes how to view your saved images on the camera's monitor. For viewing on a TV or PC screen, or to print images, see the chapter entitled "VIEWING OPTIONS".

- Viewing Pictures
- Image Playback Operations
- Erasing Pictures (One-Frame Erase)
- Erasing All Pictures (All-Frame Erase)
- Viewing Multiple Images Automatically in Sequence (Slide Show)
- Preventing Accidental Erasure (Protection)
- Adjusting the Monitor Brightness

Viewing Pictures





Monitor information

Operating Procedure

Check that the card is set and the lens barrier is closed.

1. **Keep the monitor button depressed for a moment.**

→ The camera turns on and enters the Playback mode. After a moment, the last picture you took appears on the monitor.

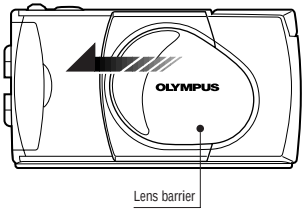
→ The monitor information is displayed as shown on the left.

→ After a moment, all displayed data except the frame No. and remaining battery power indicators disappear.

- **If no pictures have been saved, "NO PICTURE" appears on the monitor.**
- **If there is a problem with the card, the monitor shows the corresponding message. (☞ Page 93)**
- **If the remaining battery power is low, the remaining battery power indicator lights in red.**

2. **Press the monitor button again to switch the monitor and camera power off.**

When the camera is powered by batteries, it turns off automatically when no operation has been performed for one minute. If the camera has turned off, press the monitor button to resume operation.



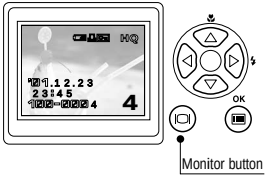
● **To enter the Shooting mode immediately after playback:**

1. **Open the lens barrier.**

→ The monitor turns off and the Shooting mode is engaged. You can now shoot.

Note
- When the camera turns on, the monitor may light for an instant and show an image for a short time. This is not a malfunction.
- Vertical stripes may appear on the image if it is shot under bright conditions (such as a sunny sky). This is not a malfunction.
- Images shot with other cameras may not be viewable on this camera. Playback of TIFF and raw data image formats is not possible.

Image Playback Operations

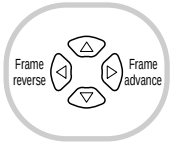


Operating Procedure

Check that the lens barrier is closed and the last image you shot is displayed by holding down the monitor button for a moment.

a. **To view an image:**
Select the image to view using the ◁ or ▷ arrow pad key.

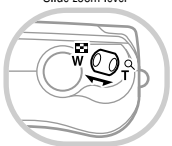
Frame operations of arrow pad keys

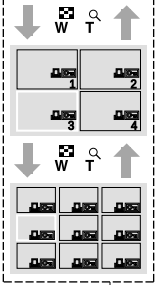


b. **To zoom an image:**
Slide the zoom lever toward T to magnify the center of the displayed image to double size.
Sliding the zoom lever toward W while a double-size image is displayed restores the original image size.

◁ ▷ : Press to select the image one frame before or after the current frame.

Slide zoom lever



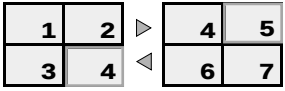


W T : Slide the zoom lever for zooming and index display

c. **To display an index:**
Slide the zoom lever toward W to display 4 images including the current image. (The current image is highlighted in a green frame.)
Sliding the zoom lever toward W again displays 9 images. (The current image is highlighted in a green frame.) Sliding the zoom lever toward T while 9 images are displayed changes the number of simultaneously displayed images to 4. Sliding toward T again changes to the single-image display.

<C. continued>

Pressing the ▷ arrow pad key while 4 (or 9) images are displayed advances the selected image (with the green frame) to the next image. When the last displayed image in the index is selected, pressing the ▷ arrow pad key brings up the next index.
Similarly, pressing the ◁ arrow pad key moves the green frame to the previous image. Pressing ◁ when the first image in the index is selected brings up the previous index.



Pressing the △ or ▽ arrow pad key moves the frame 4 (or 9) images before or after. (When you are in the single-image display, every pressing the △ or ▽ arrow pad key moves 10 images before or after.)

To magnify part of image

You can magnify any part of an image by the zooming operation on the previous page together with the arrow pad keys.

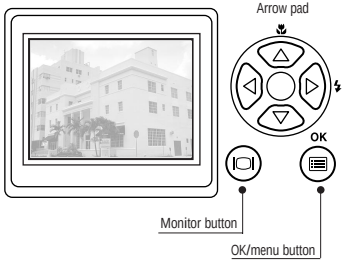
1. **Slide the zoom lever to T to magnify the central area of the image by 2X.**
→ △, ▽, ◁ and ▷ are displayed on the top, bottom, left and right of the screen respectively.

2. **Move the cross-cursor to the desired part of the image using the arrow pad keys.**

3. **Slide the zoom lever to W to restore the original display size.**

Erasing Pictures (One-Frame Erase)

You can increase the number of images that can be stored on the card by erasing unnecessary images.



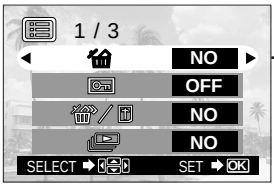
Operating Procedure

Check that the lens barrier is closed and the camera is set to the Playback mode by holding down the monitor button for a moment.

1. **Display the frame to erase by pressing the ◁ or ▷ arrow pad key.**
   (The frame can also be selected even when the 4-split or 9-split display is selected.)

2. **Press the OK/menu button.**
   → The monitor shows the Playback mode menu 1/3.

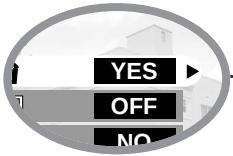
3. **Select by pressing the △ or ▽ arrow pad key.**



Playback mode menu 1/3 screen

4. **Select "YES" by pressing the ◁ or ▷ arrow pad key.**

5. **Press the OK/menu button.**
   → The selected image is erased.
   The orange lamp on the right of the viewfinder blinks during erasure.



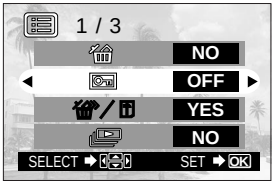
To cancel single-frame erasure:

In step 4, select "NO" and press the OK/menu button.

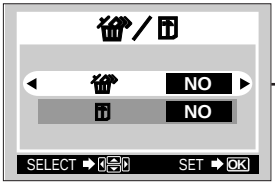
Once erased, images cannot be restored. Check each image before erasing to avoid accidentally erasing images you want to keep. Or lock the image (Page 50).

Erasing All Pictures (All-Frame Erase)

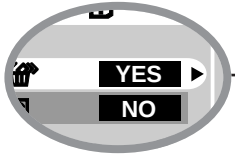
The following operation clears the card of all stored image data.



Playback mode menu 1/3 screen



Card setup screen



Operating Procedure

Check that the lens barrier is closed and the camera is set to the Playback mode by holding down the monitor button for a moment.

1. **Press the OK/menu button.**
2. **Press the ▲ or ▼ arrow pad key to select / .**
   → The display changes to "YES".
3. **Press the OK/menu button.**
   → The card setup screen is displayed.
4. **Select by pressing the ▲ or ▼ arrow pad key.**
5. **Select "YES" by pressing the ◀ or ▶ arrow pad key.**
6. **Press the OK/menu button.**
   → All of the image frame data saved in the card will be erased.

To cancel all-frame erasure:

In step 5, select "NO" and press the OK/menu button.

Note: Erasure time may be prolonged if the card has been subjected to print reservation (☞ Page 76). This is not a malfunction.

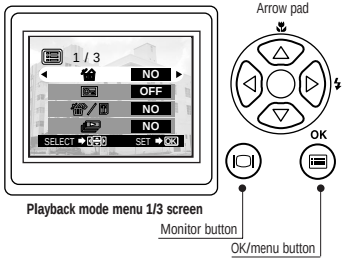
Check the following before erasing images

- **Erasure is not possible if the image to be erased is protected or a write protect seal is attached to the card (☞ Pages 50, 51).**
- **For details on handling your card, refer to the instructions provided with it.**

To prevent destruction of data on the card, never attempt to open the card cover, remove the batteries, disconnect the AC adapter or remove the card during erasure.

Viewing Multiple Images Automatically in Sequence (Slide Show)

Images in the card can be viewed on the monitor automatically in their stored order. This function is useful for presentation purposes at a meeting etc. because the images can be displayed on a large television screen, as well as for checking all the images stored in the card.



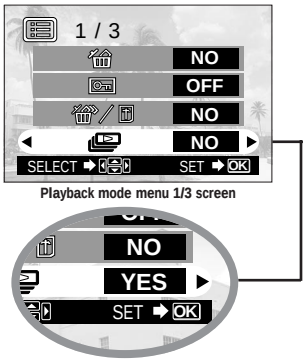
Playback mode menu 1/3 screen

Operating Procedure

Check that the lens barrier is closed and the camera is set to the Playback mode by holding down the monitor button for a moment.

1. **Press the OK/menu button.**

→ The monitor shows the Playback mode menu 1/3.

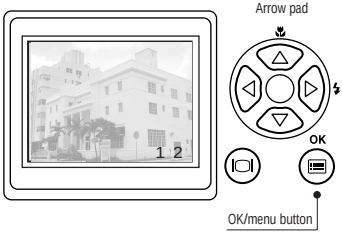


Playback mode menu 1/3 screen

2. **Select by pressing the ▲ or ▼ arrow pad key, and then select "YES" by pressing the ◀ or ▶ arrow pad key.**

3. **Press the OK/menu button.**

→ Slide Show starts by displaying each frame for 3 seconds.



To cancel Slide Show:

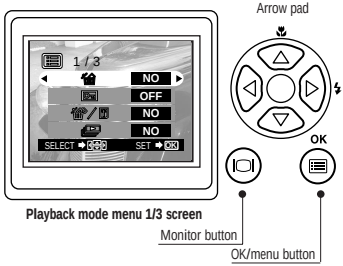
4. **Press the OK/menu button.**
   → The slide show is interrupted, and the monitor shows the Playback mode menu 1/3 with "NO" selected for .

5. **Press the OK/menu button.**
   → The slide show is canceled.

Note When you select "YES" for and press the OK/menu button, the slide show restarts from the image where the slide show is interrupted.

Preventing Accidental Erasure (Protection)

It is recommended that you protect important images to avoid accidentally erasing them. When an image is protected, it cannot be erased unless the card is formatted.



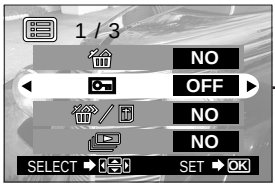
Playback mode menu 1/3 screen

Operating Procedure

Check that the lens barrier is closed and the camera is set to the Playback mode by holding down the monitor button for a moment.

1. **Select the image frame to protect by pressing the ◁ or ▷ arrow pad key.** (The frame can also be selected even in the 4-frame or 9-frame display mode.)

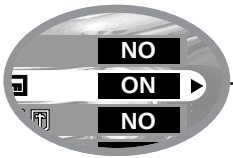
2. **Press the OK/menu button.**
   → The monitor shows the Playback mode menu 1/3.



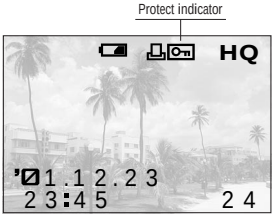
Playback mode menu 1/3 screen

3. **Select by pressing the △ or ▽ arrow pad key.**

4. **Select "ON" by pressing the ▷ or ◁ arrow pad key.**



5. **Press the OK/menu button.**
   → The selected image frame is protected (image locked) and the protect indicator is displayed at the top right of the image. The protect indicator disappears after a while.

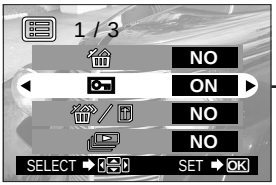


Note The protection setting is not reset even after the camera is turned off.

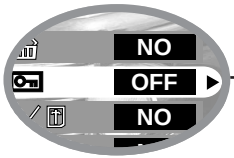
Unprotecting an image:

6. **Press the OK/menu button to select . Select "OFF" by pressing the ◁ or ▷ arrow pad key.**

7. **Press the OK/menu button.**
   → Protection is canceled and the protect indicator ( ) disappears.



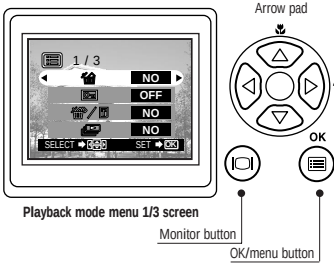
Playback mode menu 1/3 screen



- **When the card is formatted, protected images are erased.**
- **Images on a card with a write protect seal attached to it cannot be protected. For details, refer to the instructions included with the provided SmartMedia.**

Adjusting the Monitor Brightness

You can adjust the brightness of the monitor to make it easier to see when shooting under daylight or in the dark, as well as when viewing images on the monitor.



Playback mode menu 1/3 screen

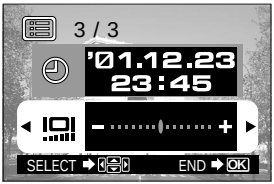
Operating Procedure

Check that the lens barrier is closed and the camera is set to the Playback mode by holding down the monitor button for a moment.

1. **Press the OK/menu button.**

→ The monitor shows the Playback mode menu 1/3.

2. **Press the △ or ▽ arrow pad key to display the menu 3/3, and select .**



Playback mode menu 3/3 screen

Monitor adjustment screen

3. **Adjust to the desired brightness by pressing the ▷ (+/to brighten) or ◁ (–/to darken) arrow pad key.**

4. **Press the OK/menu button.**

→ All the images will be displayed at the set brightness.

Note
- The brightness setting will be held in memory even after the camera is turned off.
- The monitor brightness can also be set from the Shooting mode menu.

ADVANCED SHOOTING FEATURES

This chapter introduces various shooting features that give you the shooting flexibility you need for a wide range of situations, including the use of spare cards, flash operation, sequential shooting, close-up shooting and exposure compensation. Once you master the operations in this chapter, you will be able to capture images exactly the way you want them.

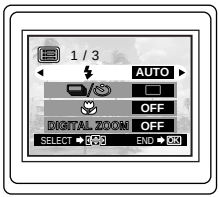
- Selecting the Image Quality (Record Mode)
- Using the Flash
- Magnifying the Subject (Zooming)
- Shooting a Close Subject (Macro Shooting)
- Using the Self-Timer
- Shooting Images Sequentially (Sequential Shooting)
- Varying the Image Brightness (Exposure Compensation)
- Varying the Image Color Tone (White Balance Control)
- Muting the Beep Tones

Selecting the Image Quality (Record Mode)

The Record modes allow you to shoot images with higher quality (SHQ) or larger number of images per card (SQ). The default setting of the Record mode is HQ.

Using the Three Record Modes

SQ (Standard Quality)	Select this mode when you want to attach the image to e-mail, simply view it on your PC screen or want to shoot more images per card.
HQ (High Quality)	Select this mode when you need image quality in between SQ and SHQ. This mode is ideal when you need to print out images or view them on your PC screen. (This is the default recording mode.)
SHQ (Super-High Quality)	Select this mode when you want to print the image with high quality or a large size or to retouch it on your PC.



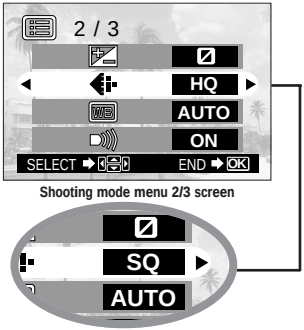
Shooting mode menu 1/3 screen

Operating Procedure

Check that the lens barrier is open.

1. **Press the OK/menu button.**
   → The monitor shows the Shooting mode menu 1/3.

2. **Press the ▲ or ▼ arrow pad key to display the shooting menu 2/3, and then select .**



Shooting mode menu 2/3 screen

3. **Each time you press the ◁ or ▷ arrow pad key, the Record mode is switched in the following sequence: "SHQ" ⟷ "HQ" ⟷ "SQ". Select one of these modes.**

4. **Press the OK/menu button.**

→ The Record mode is set, the shooting screen re-appears and the number of images you can shoot in current Record mode is displayed.

Note

- The Record mode can also be changed frame by frame even when the card has already been partially used.
- For the number of shootable images and image size (in pixels) for each Record mode, refer to "Selecting the Appropriate Card" (☞ Page 23).
- The selected Record mode is held in memory even after the camera is turned off.

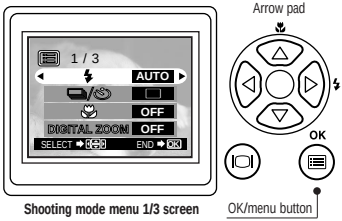
Cautions when shooting in the High-Quality (SHQ) mode

- **The higher the image quality, the fewer images you can shoot.**
- **The higher the image quality, the longer the waiting time immediately after shooting (the period in which the orange lamp blinks). Also, image display will take longer in the Playback mode.**
- **When you select a Record mode with higher image quality than the current mode when the number of shootable images remaining is low, the monitor may display "CARD FULL" (☞ Page 93). This means that there is not enough free space on the card for the selected Record mode. Select another Record mode.**

Do not open the card cover or remove the AC adapter, batteries or card while the orange lamp on the right of the viewfinder is blinking. Otherwise, the data on the card may be destroyed.

Using the Flash

The flash has been designed to fire automatically when shooting under low light or against strong back light. You can select one of the 5 flash modes according to different shooting situations.

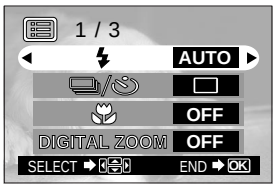


Shooting mode menu 1/3 screen

Operating Procedure

Check that the lens barrier is open.

1. **Press the OK/menu button.**
   → The monitor shows the Shooting mode menu 1/3.
2. **Select ϟ by pressing the △ or ▽ arrow pad key.**
3. **Each time you press the ◁ or ▷ arrow pad key, the Flash mode is switched in the sequence: Auto-Flash → Red-Eye Reduction Flash → Fill-In Flash ϟ → Night Scene → Flash Off . Select one of these modes.**
4. **Press the OK/menu button.**
   → The Flash mode is set and the shooting screen re-appears. Now you can shoot images with the selected Flash mode.



Shooting mode menu 1/3 screen

Note

The Flash mode setting menu can also be displayed by simply pressing the ▷ (ϟ) arrow pad key when the lens barrier is open. Pressing the ▷ (ϟ) arrow pad key changes a Flash mode to another. The setting menu disappears after a moment if no operation is performed.

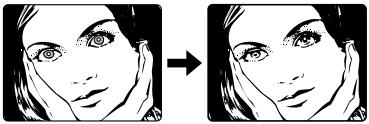
Using the Flash Modes

Auto-Flash

The flash fires automatically in low light or back light conditions.
To shoot a subject with back light, position the AF target mark (⊹) over the subject in the viewfinder.

Red-Eye Reduction Flash

The light from the flash may make the subject's eyes appear red in pictures. The Red-Eye Reduction Flash mode reduces this phenomenon.
In this mode, the flash emits pre-flashes about 10 times before actually firing. This helps accustom the subject's eyes to the bright light and minimizes the red eye phenomenon.



Because of the pre-flashes, it takes about one second before the shutter is actually released. Hold the camera securely during this period to prevent camera shake.

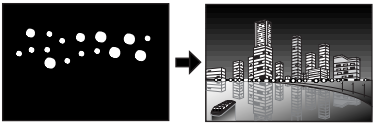
Fill-In Flash

Use this mode to fire the flash with every image.
In this mode, the flash always fires every time the shutter button is released. This mode is suitable when you need minimize shadows around the subject (such as the shade of tree leaves on the subject's face), in back light condition, or under artificial light such as a fluorescence lamp.

The fill-in flash effect may not be noticeable under very bright light.

Night Scene

Use this mode when shooting a subject against a night background. In this mode, the flash fires at the beginning of the shot to brighten the subject and the shutter speed is reduced to shoot the background out of reach of the flash.



To prevent the background from blurring, it is recommended to use a tripod or to fix the camera on a stable surface in this mode. Note that a moving subject will be blurred.

Flash Off

Use this mode for shooting in locations where flashes are prohibited (such as a museum).

The shutter speed is reduced in dark conditions. It is recommended to use a tripod or to fix the camera on a stable surface to prevent camera shake. Note that a moving subject will be blurred.

Note

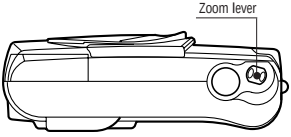
- When the Red-Eye Reduction Flash mode is set, the setting is held in memory even after the camera is turned off. Other Flash mode settings are reset to Auto when the camera is turned off.
- The flash working distance is approx. 0.2 m to 3.5 m/8 in. to 11.5 ft.

- **The blinking of the orange lamp on the right of the viewfinder indicates that the flash is being recharged and shooting is not possible. Remove your finger from the shutter button and retry shooting after the orange lamp turns off.**
- **In macro shooting (☞ Page 61), shadows may be conspicuous or correct exposure may not be achieved. Always check your image on the monitor after macro shooting.**
- **The flash is disabled in the Sequential Shooting mode (☞ Page 63).**

Magnifying the Subject (Zooming)

The optical zoom allows you to shoot an image magnified up to 3X. The digital zoom is also available to magnify an image up to 2X. If you use both the functions, you can shoot an image zoomed by up to 6X. To use the digital zoom, you need to set the Digital Zoom to "ON" using the setting menu display.

To use the optical zoom



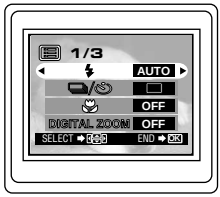
Operating Procedure

Check that the lens barrier is open.

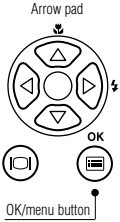
1. **Slide the zoom lever to T (Telephoto).**
   → The image is zoomed in to 3X.
2. **Slide the zoom lever to W (Wide angle).**
   → The image is zoomed out.

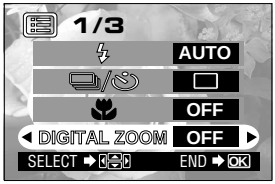
Note Different from the digital zoom, the optical zoom will not make the image grainy.

To use the digital zoom



Shooting mode menu 1/3 screen





Shooting mode menu 1/3 screen

Digital Zoom
Appears only when using digital zooming (and does not appear when using only optical zooming.)
The zoom bar slides toward T when zooming-in, and toward W when zooming-out.

Operating Procedure

Check that the lens barrier is open.

1. **Press the OK/menu button.**
   → The monitor shows the Shooting mode menu 1/3.
2. **Select "DIGITAL ZOOM" by pressing the ▲ or ▼ arrow pad key.**
3. **Select "ON" by pressing the ◀ or ▶ arrow pad key, then press the OK/menu button.**

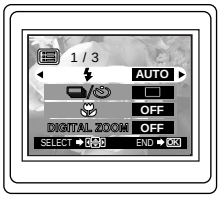
The zoomed image cannot be confirmed in the viewfinder. Be sure to observe the image on the monitor.

4. **Slide the zoom lever to T.**
   → The image is zoomed in up to 3X first by the optical zoom, then up to 2X (6X in total) by the digital zoom.
5. **Slide the zoom lever to W.**
   → The image is zoomed out to 1X by the digital zoom (3X in total), then to 1X by the optical zoom.

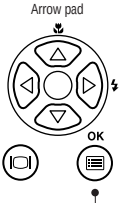
The image will be grainy when the digital zoom is used.

Shooting a Close Subject (Macro Shooting)

It is recommended to use the Macro mode when shooting a subject at a distance of less than 0.5 m/1.6 ft.



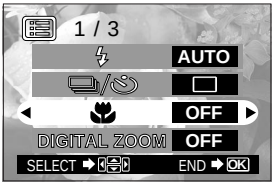
Shooting mode menu 1/3 screen



Operating Procedure

Check that the lens barrier is open.

1. **Press the OK/menu button.**
   → The monitor shows the Shooting mode menu 1/3.
2. **Select by pressing the ▲ or ▼ arrow pad key.**
3. **Select "ON" by pressing the ◀ or ▶ arrow pad key.**
4. **Press the OK/menu button.**
   → The monitor turns on so you can compose close-up images in the monitor. is displayed on the monitor.



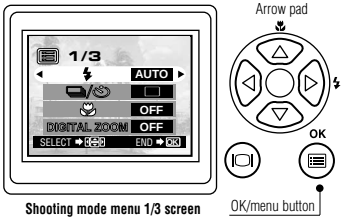
Shooting mode menu 1/3 screen

Note can also be displayed by pressing the ▲ ( ) arrow pad key when the lens barrier is open. Pressing the ▲ arrow pad key switches the Macro mode to On or Off. The setting menu disappears after a moment when no operation is performed.

- **In the Macro mode, keep the distance between the camera and subject between about 0.2 m/8 in. and 0.5 m/1.6 ft. Otherwise, correct shooting may not be possible due to errors in focus and exposure.**
- **When the camera is less than 0.2 m/8 in. from the subject, the shutter will not release because autofocus is not possible.**
- **In macro shooting, shadows may be conspicuous or correct exposure may not be achieved. Always check your image on the monitor after macro shooting.**
- **Be sure to observe the monitor, not the viewfinder, in the Macro mode.**
- **The Macro mode is automaticaly canceled when the camera is tured off.**

Using the Self-Timer

You can shoot images with self-timer operation. This is useful for taking pictures with yourself included in the image. Fix the camera securely on a tripod, etc., before self-timer shooting.



Shooting mode menu 1/3 screen

Operating Procedure

Check that the lens barrier is open.

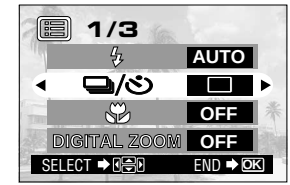
1. **Press the ☰ OK/menu button.**
   → The monitor shows the Shooting mode menu 1/3.

2. **Select ▭/⏲ by pressing the △ or ▽ arrow pad key.**

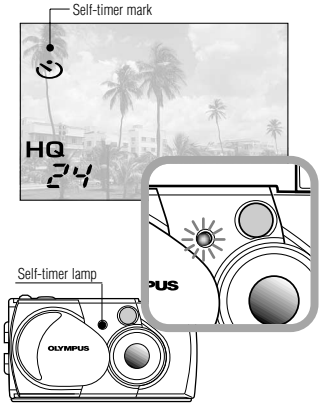
3. **Select "⏲" by pressing the ◁ or ▷ arrow pad key.**

4. **Press the ☰ OK/menu button.**
   → Self-timer is set and the self-timer mark (⏲) is displayed on the monitor.

5. **Compose the image in the monitor or viewfinder, and then press the shutter button.**
   → The self-timer lamp on the front of the camera lights for 10 seconds and then blinks for 2 seconds, after which the shutter is released.



Shooting mode menu 1/3 screen



After shooting:
Self-timer is canceled automatically after shooting a single image.

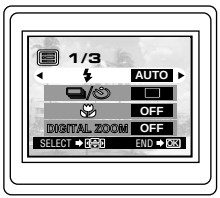
To cancel self-timer:
Close the lens barrier while the self-timer lamp lights to turn the camera off.

To reset self-timer:
Press the ☰ OK/menu button.

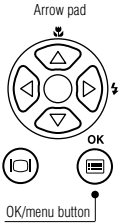
Shooting Images Sequentially

(Sequential Shooting)

The Sequential Shooting mode allows you to take a rapid succession of still images by pressing and holding the shutter button. You can choose the best image from a series of sequential shots. When you have found your best shot, you can also erase the rest of the images (☞ Page 46).



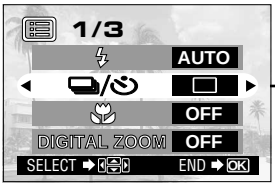
Shooting mode menu 1/3 screen



Operating Procedure

Check that the lens barrier is open.

1. **Press the OK/menu button.**
→ The monitor shows the Shooting mode menu 1/3.



Shooting mode menu 1/3 screen

2. **Select / by pressing the △ or ▽ arrow pad key.**

3. **Select " " by pressing the ◁ or ▷ arrow pad key.**

4. **Press the OK/menu button.**
→ The Sequential Shooting mode is engaged and " " is displayed on the monitor.

5. **Press and hold the shutter button.**
→ Multiple images will be shot in rapid succession for as long as your keep the button pressed.

6. **Close the lens barrier and open it again to restore the default Single-Frame Shooting mode.**

- The monitor turns off during sequential shooting. This is not a malfunctioning.
- Flash is not available in the Sequential Shooting mode. Even when the Flash mode is set to Auto, it is switched to Flash Off.
- To prevent camera shake, the maximum shutter speed is limited to 1/30 second. As a result, dark subjects may look darker than in other Shooting modes.
- After sequential shooting, a longer time than usual may be required to save the images to the card (the period in which the orange lamp on the right of the viewfinder blinks).
- The number of images that can be shot in succession varies depending on the subject, Record mode, and the number of shootable images on the card.

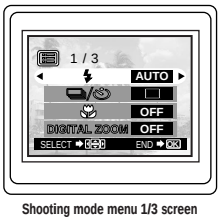
Do not open the card cover or remove the AC adapter, batteries or card while the orange lamp on the right of the viewfinder is blinking. Otherwise, the data on the card may be destroyed.

Varying the Image Brightness

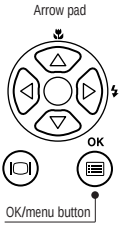
(Exposure Compensation)

Although the camera's exposure is set automatically, you can vary it to change the image brightness in the range of ±2 stops in 0.5-stop steps.

- **Use this function to obtain correct brightness (exposure) when there is significant contrast (difference in brightness) in the image.**
- **If you want a white object to appear as white as possible, adjust [+] to increase the exposure. If you want a black object to appear as black as possible, adjust [–] to decrease the exposure.**



Shooting mode menu 1/3 screen

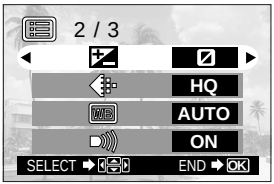


Operating Procedure

Check that the lens barrier is open.

1. **Press the OK/menu button.**

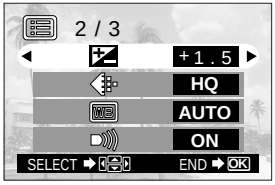
→ The monitor shows the Shooting mode menu 1/3.



Shooting mode menu 2/3 screen

2. **Press the △ or ▽ arrow pad key to display the Shooting mode menu 2/3, and then select .**

3. **Select a + value (to brighten image) or – value (to darken image) by pressing the ◁ or ▷ arrow pad key.**



Shooting mode menu 2/3 screen

4. Press the OK/menu button.

→ The camera returns to the Shooting mode and the monitor shows the corrected exposure value.

5. Press the shutter button.

→ Images can be shot successively while maintaining the corrected exposure value.

6. Close the lens barrier to turn the camera off.

→ The exposure value is reset to ±0 (no correction).
The exposure compensation value on the monitor goes out.

When the exposure is corrected, the brightness of the image displayed on the monitor also changes. However, the variation may be less noticeable when the subject is dark. In this case, check the shot image to confirm that exposure is satisfactory.

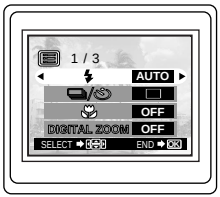
- **If the flash is used, the image brightness (exposure) may differ from the intended brightness (exposure).**
- **Exposure compensation cannot correct the image if the surroundings of the subject are extremely bright or dark.**

Varying the Image Color Tone

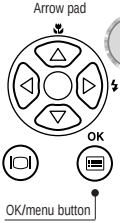
(White Balance Control)

This camera incorporates electronic circuitry to automatically adjust color hues so that they look natural (auto white balance control circuit). If auto white balance control does not produce accurate results due to weather or illumination, you can control the white balance manually.

Natural hues cannot be obtained automatically under a mixture of artificial lighting and natural lighting or under fluorescent lighting.



Shooting mode menu 1/3 screen

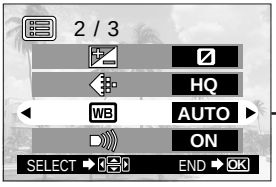


Operating Procedure

Check that the lens barrier is open.

1. **Press the OK/menu button.**

→ The monitor shows the Shooting mode menu 1/3.



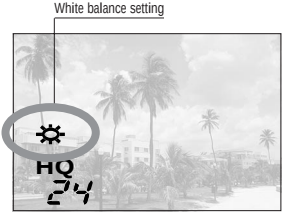
Shooting mode menu 2/3 screen

2. **Press the △ or ▽ arrow pad key to display the Shooting mode menu 2/3, and then select WB .**

3. **Select one of the White Balance Control modes listed on next page by pressing the ◁ or ▷ arrow pad keys.**

White Balance Settings

→ **AUTO:** This is the default setting, **which is not displayed on the monitor.** The white balance is controlled automatically so that colors look natural.
→ **(Clear Sky):** The white balance is controlled so that colors look natural in outdoors under a clear sky.
→ **(Cloudy Sky):** The white balance is controlled so that colors look natural in outdoors under a cloudy sky.
→ **(Incandescent Lamp):** The white balance is controlled so that colors look natural under incandescent lighting.
→ **(Fluorescent Lamp):** The white balance is controlled so that colors look natural under fluorescent lighting.



4. Press the OK/menu button.

→ The camera returns to the Shooting mode and the monitor shows the white balance setting.

5. Press the shutter button.

→ Images can be shot successively while maintaining the selected white balance setting.

6. Close the lens barrier to turn the camera off.

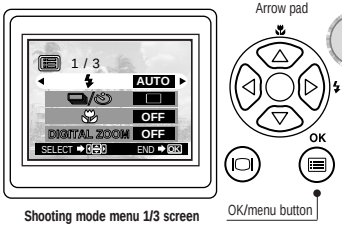
→ The white balance setting is restored to AUTO.

If you want an image color tone that resembles what you see under incandescent lighting, set the White Balance Control mode to (Clear Sky). This will produce colors like those seen under an incandescent lamp.

- **Under special light sources, the white balance control circuitry may not work as intended.**
- **After shooting, be sure to check the color tone on the monitor to see if the set white balance control value is optimal.**
- **When you set a White Balance Control mode other than AUTO and use the flash, the color viewed on the monitor could be different from the color of the shooted image.**

Muting the Beep Tones

The beep tones generated by the camera may be annoying when shooting images at a wedding, theater or when photographing animals. You can mute the beep tones in such cases.

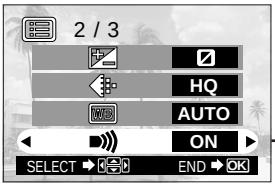


Shooting mode menu 1/3 screen

Operating Procedure

Check that the lens barrier is open.

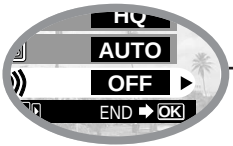
1. **Press the OK/menu button.**
   → The monitor shows the Shooting mode menu 1/3.



Shooting mode menu 2/3 screen

2. **Press the △ or ▽ arrow pad key to display the Shooting mode menu 2/3, and then select .**

3. **Select "OFF" by pressing the ◁ or ▷ arrow pad key.**



4. **Press the OK/menu button.**
   → The camera returns to the Shooting mode.

5. **Now you can start shooting.**
   → Images can be shot with beep tones muted.

Note

- The beep tone muting setting is held in memory even after the camera is turned off.
- The beep tones can be turned on and off from the Playback mode menu.

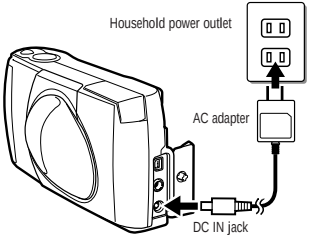
VIEWING OPTIONS

Pictures taken with this camera can be displayed in many ways, offering a wide range of entertainment possibilities. This chapter describes various ways to view images including image printing and downloading image data to a PC.
When the camera is connected to a TV, PC or printer, it is recommended to power the camera from the dedicated AC adapter.

- Using the AC Adapter (Optional)
- Viewing Images on a TV Screen
- Printing Images in a Lab or on a Printer
- Making a Print Reservation on SmartMedia Card
- Operations Available with Your PC
- Finding the Best Way to Download Image Data to Your PC
- Downloading Image Data to Your PC

Using the AC Adapter (Optional)

The optional dedicated AC adapter allows you to power the camera from a household power outlet.

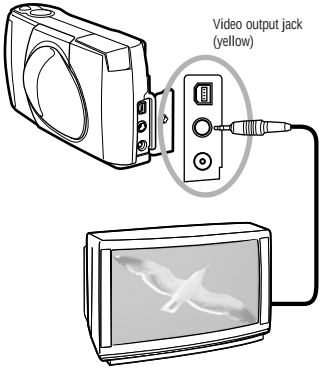


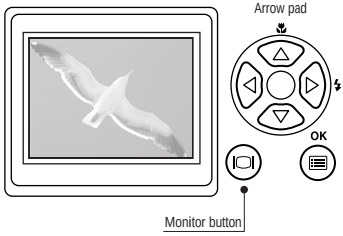
- **Do not unplug the AC adapter when the camera is on. Doing so may cause problems with the camera's settings.**
- **If the camera is connected to a TV or PC for a long period while the camera is powered by batteries, the power supply may run out during operation, potentially damaging the image data. To prevent this, we recommend you power the camera from the AC adapter.**

Observe the following points to prevent a fire hazard, electric shock or burns.

- Use an AC adapter that matches your local voltage. For more information, contact your dealer or authorized Olympus service center.
- Do not use the camera if the AC adapter is not plugged in completely.
- Never plug or unplug the AC adapter into/from a power outlet with wet hands.
- In case of abnormality with the AC adapter or cord, such as abnormal heat, burning smell or smoke, immediately unplug the AC adapter from the power outlet and contact your dealer or authorized Olympus service center.
- Never use an AC adapter other than that supplied by Olympus. Otherwise, the camera or power supply circuitry may malfunction or an unexpected accident may occur. Note that Olympus assumes no liability for damage due to the use of AC adapters not specified.
- When unplugging the AC adapter from the power outlet, be sure to hold the main body of AC adapter, not the cord.
- Never stretch, bend, twist or extend the AC adapter cord.
- When you find damage, wire disconnection or plug contact failure with the AC adapter cord, immediately contact your dealer or authorized Olympus service center.
- Before plugging or unplugging the AC adapter, always ensure that the camera is off regardless of whether the camera is powered by the batteries or not.
- When the camera is not in use, be sure to unplug the AC adapter from the power outlet.
- This AC adapter cannot charge rechargeable batteries. To charge rechargeable batteries, use a dedicated battery recharger.

Viewing Images on a TV Screen





Note

- The camera's monitor turns off when the camera is connected to a TV.
- The displayed image may deviate from the center of the screen. This is due to the adjustment of the TV and is not a malfunction.
- The Slide Show function can also be used with a TV screen (☞ Page 48).

Note You can display images on a large TV screen by connecting the camera to a TV set using the video cable.

Operating Procedure

Check that the TV and camera are off and that the camera's lens barrier is closed.

1. **Connect the video cable to the video output jack of the camera and video input connector of the TV.**
2. **Turn the TV on and select the video input.**
   For video input selection, refer to your TV's instruction manual.
3. **Hold down the monitor button on the camera for a moment.**
   → The camera turns on in the Playback mode, and the last image taken is displayed on the TV screen.
4. **Select the image to view using the arrow pad keys (☞ Page 44).**

- **With certain TVs, a black frame may be displayed around the displayed image. If the video signal of such an image is output from the TV to a video printer (commercially available), the black frame may be more noticeable in the printed image.**
- **Be sure to use the provided video cable when you connect the camera and TV.**

Printing Images in a Lab or on a Printer

Even without a printer connected to a PC, you can print images directly from the card.

To Print Images in a Photo Lab or on a DPOF-Compatible Printer

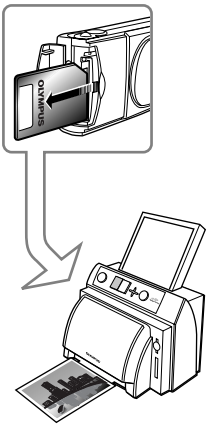
You can print images by bringing the card to a DPOF-compatible photo lab or loading it in a printer with DPOF compatibility.

Note By reserving the images to be printed in the card using DPOF (☞ Page 76), you do not have to specify the images to be printed when you insert the card in a DPOF-compatible printer or when you bring the card to a DPOF-compatible photo lab.

About DPOF

DPOF (Digital Print Order Format) is a format used to record automatic print information from cameras. By specifying which images are to be printed, the images can be printed easily by DPOF-compatible printing service labs or a household-type DPOF-compatible printer.

- **This camera cannot modify reservations made by other DPOF equipment. DPOF reservations should be modified on the equipment used to make them.**
- **If a DPOF reservation is made using this camera on a card which has already been subjected to DPOF reservation by another device, the reservation made by the other device may be canceled.**
- **Parts of the DPOF reservation function may be restricted with certain printers or labs.**
- **Consult your lab for service availability of digital image printing from media other than SmartMedia.**



P-400/P-200/P-330N(E)

To Print Images on a Dedicated Printer

Note The optional P-400, P-200 and P-330N(E) printers are provided with DPOF compatibility. DPOF-reserved images can be printed simply by inserting a card subjected to DPOF print reservation (☞ Page 76) in any of these printers. For details, please refer to the instruction manual of the specified printer.

Main Features of the P-400, P-200 and P-330N(E)

- Single-frame print
- Multi-frame print (4-frame print/9-frame print)
- DPOF-reserved print
- Trimming print (1.5X/2X) (a part magnified)
- Date print
- Mirror print* (left and right reversed)

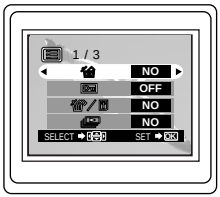
*This function is available only with the P-330N(E).

- **It is not possible to print images saved on the card by connecting a printer directly to the USB connector of the camera.**
- **If images are printed by connecting the P-330N(E) printer directly to the Video output jack of the camera, you will not be able to take advantage of the printer's full performance.**

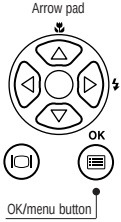
Making a Print Reservation on SmartMedia Card

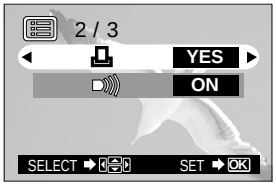
Single-frame print & all-frame print

By specifying the desired number of prints for each of the images saved on a card, you can print out multiple copies of each image with a DPOF-compatible printer or at a photo lab.

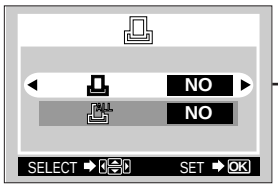


Playback mode menu 1/3

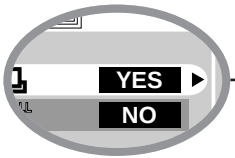




Playback mode menu 2/3



Card print reservation screen



Operating Procedure

Check that the camera is set to the Playback mode by pressing the monitor button for a moment.

1. **Press the OK/menu button.**

→ The display shows the Playback mode menu 1/3.

2. **Press the △ or ▽ arrow pad key to select .**

→ The display changes to "YES".

3. **Press the OK/menu button.**

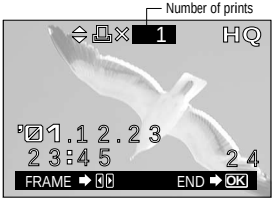
→ The card print reservation screen is displayed.

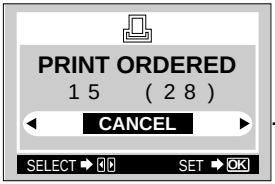
4. **Select or by pressing the △ or ▽ arrow pad key. Select "YES" by pressing the the ◁ or ▷ arrow pad key, and then press the OK/menu button.**

→ If you select , skip to step *8*.

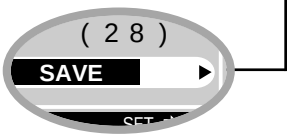
→ If you select , go to the next step.

Note
- Single-frame reservation: Selects and reserves the frame you want to print.
- All-frame reservation: Reserves all the frames in the card.





Card print reservation confirmation screen



5. **When is selected above, also select the image to be printed by pressing the ◁ or ▷ arrow pad key.**

6. **Select the desired number of prints by pressing the △ or ▽ arrow pad key.**

7. **Select the next image to be printed by pressing the ◁ or ▷ arrow pad key and select the desired number of prints (up to 999) in the same way as described above.**

8. **After completing reservation of the desired image frames, press the OK/menu button.**
   → The confirmation screen is displayed (reserved images and numbers).

9. **Select "SAVE" by pressing the ◁ or ▷ button, and then press the OK/menu button.**
   → The card print reservation is made and the Playback mode menu 2/3 is restored.

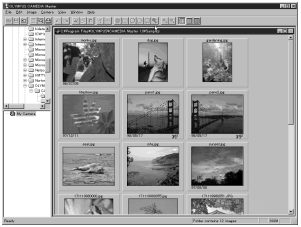
Note The reservation data on the card is held in memory even when the camera is turned off.

Selecting "CANCEL" clears all reservation.

- **If the card already contains reservation data made by this camera, the message "PRINT ORDERED" is displayed after step 3 together with the reserved frame numbers and print counts.**
- **To cancel previous reservations, select "CANCEL" and press the OK/menu button.**

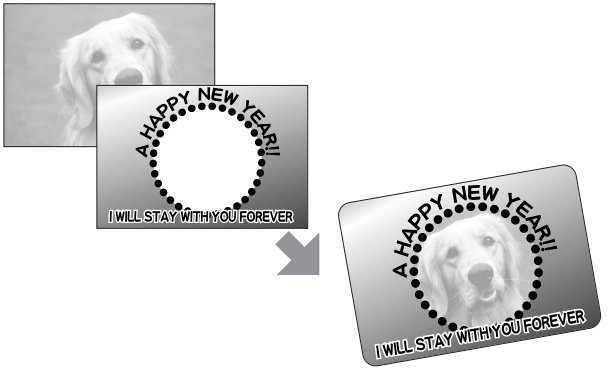
Operations Available with Your PC

You can download images from the camera to a PC and take advantage of PC-based image processing and other features provided with commercially available application software.



Processing images using CAMEDIA Master

- Storing image data on a PC hard disk
- Viewing high-resolution images on the PC screen
- Inserting images shot in documents
- Attaching images to e-mail
- Inserting text into images to make calendars or postcards
- Copying images or documents containing images onto an MO or CD-R disk
- Retouching of images by adjusting the hue, brightness, etc.



What you can do with your PC depends on the software running on your PC and on its operating environment. For details, refer to your PC's instruction manual and the manuals of the software you are using.

Finding the Best Way to Download Image Data to Your PC

Use this flowchart to find the best way to download images that have been shot with this camera to your PC.

Start

Does your PC have a USB interface?
Is there a connector marked ⇐ on your PC?

Yes → **USB cable**

Use the provided USB cable (☞ Page 80).

Yes → **SmartMedia reader/writer**

Use the optional USB SmartMedia reader/writer (☞ Page 82).

No

Does your PC have a built-in floppy disk drive?

Yes → **FlashPath floppy disk adapter**

Use the optional FlashPath floppy disk adapter (☞ Page 82).

No

Does your PC have a built-in PC card slot?

Yes → **PC card adapter**

Use the optional PC card adapter (☞ Page 82).

No

Consult your nearest Olympus representative. See the list on the back cover of this manual.

Connecting the Camera to Your PC through the Dedicated USB Cable

You can use the dedicated USB cable to download images shot with this camera to your PC. If your PC does not have a USB interface, refer to Page 79 to find the best way to download image data to your PC.

The following setup is required to download image data to your PC. Note that the downloading method used may differ depending on your PC's operating environment.

PC Environment	Items Required for Connection	
	Connection Cable	Software
●Windows 2000 Professional/Me ●Mac OS 9.0 to 9.1*	Dedicated USB cable	Not necessary
●Windows 98/98 Second Edition	Dedicated USB cable	USB driver**

* **Compatibility with Mac OS 8.6** has only been confirmed on USB-compatible systems using USB MASS Storage Support 1.3.5.

** Included on the provided CD-ROM.

- **When the camera is connected to a PC, none of the camera buttons is functional.**
- **Even if your PC has a USB port, operation is not guaranteed if any of the following environments is applicable to your PC.**
  - ○**PC running Windows 98 upgraded from Windows 95**
  - ○**PC running Windows 95**
  - ○**PC running Windows NT 4.0**
- **Operation is not guaranteed if your PC runs Mac OS or an upgraded version of USB MASS Storage Support.**
- **Operation is not guaranteed if your PC has a USB terminal on an expansion card.**
- **Custom-made PCs are out of the warranties.**
- **You could encounter difficulty transferring images if you connect the USB cable to a hub connected to the computer. If you encounter problems, disconnect the cable from the hub and connect it directly to the computer.**

When using the AC adapter with the batteries loaded

It is recommended that you connect the optional AC adapter to the camera and remove the batteries from the camera before connecting the camera to PC. (When you don't plan to use the AC adapter, make sure that the batteries are loaded in the camera.)

- **If battery power runs out while the PC is accessing the card in the camera, the camera turns off in the middle of operation and this could destroy image files (data).**
- **Plugging or unplugging the AC adapter when the camera is connected to a PC and the batteries are loaded could destroy image data stored on the card and/or cause the connected PC to malfunction.**

● When you have to use the AC adapter with the batteries loaded, follow the procedures below.

Connecting the AC adapter

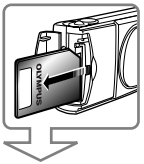
1. Make sure that the USB cable is not connected to the camera.
2. Plug in the AC adapter.
3. Connect the camera to the PC via the USB cable.

Disconnecting the AC adapter

1. Disconnect the USB cable from the camera and PC.
2. Unplug the AC adapter from the camera.

Downloading Images Directly to Your PC from the Card

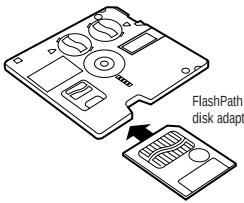
If you use one of the following methods, you can download images directly to a PC from the card without connecting the camera to the PC. (Note that you will need an appropriate application to open the image.) For the latest information regarding each equipment, consult authorized Olympus service center.



USB SmartMedia reader/writer

SmartMedia reader/writer

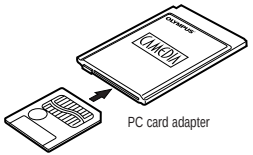
If your PC is USB-compatible and you have the optional USB SmartMedia reader/writer:
By connecting the SmartMedia reader/writer to the USB port of your PC and inserting the card into it, you can download images to your PC directly from the card. First make sure that your PC is a USB-compatible machine with Windows 98/Me/2000 or Mac OS 8.6 to 9.0.4. For details, see the USB SmartMedia reader/writer instructions.



FlashPath floppy disk adapter

FlashPath floppy disk adapter

If you have the optionally available FlashPath floppy disk adapter:
By loading the card into the adapter and inserting the adapter into your PC's floppy disk drive, you can download images to your PC directly from the card. For details, see the floppy disk adapter instructions.



PC card adapter

PC card adapter

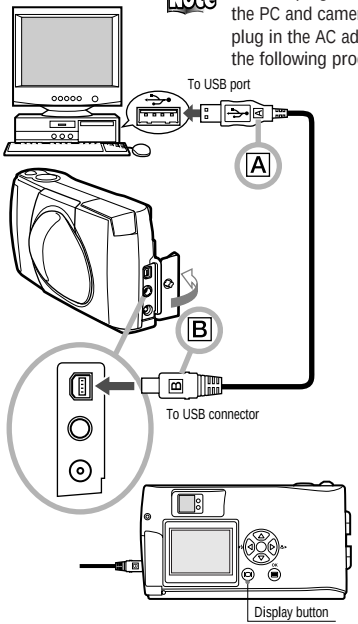
If you have the optionally available PC card adapter:
By loading the card into the adapter and inserting the adapter into your PC's PC card slot, you can download images to your PC directly from the card. For details, see the PC card adapter instructions.

For updated information on optional accessories, visit our website at http://www.olympus.com

- **Depending on the PC operating environment or storage capacity of the card, the above devices may be unusable. Make sure you can use your required device before trying to download images.**
- **Errors will occur frequently if a card with a write protect seal attached is used on a PC. Do not use such a card. For details, see the adapter's instructions.**
- **If the file name of an image file is altered or the file is moved to another folder (directory), it may not be possible to play back the image on the camera's built-in monitor.**
- **It may not be possible to play back image files on the camera's monitor if the files were saved using an application other than Olympus CAMEDIA Master.**

Downloading Image Data to Your PC

Note You can plug and unplug a USB cable regardless of whether the PC and camera are on or off. It is recommended that you plug in the AC adapter to power the camera before you start the following procedure (☞ Page 72).



Operating Procedure

1. **Connect the end of the USB cable marked A to the USB port on your PC.**

   The location of the USB port varies depending on the PC.

2. **Open the connector cover on the camera.**

3. **Connect the end of the USB cable marked B to the USB connector on the camera.**

   → When the camera starts downloading, the green lamp on the right of the viewfinder lights.

   The connection is complete.

When using a Windows PC ☞ Page 85

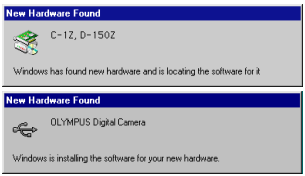
When using a Macintosh with OS 9* ☞ Page 88

*** For details on operating procedure with Mac OS 8.6, consult authorized Olympus service center.**

For using the AC adapter, refer to "When using the AC adapter with the batteries loaded" (☞ Page 81).

When using a Windows PC

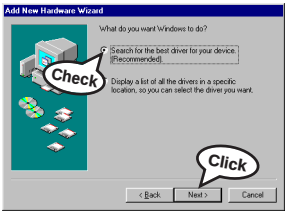
Make sure the camera is properly connected to your PC.


New Hardware Found
C-1Z, D-150Z
Windows has found new hardware and is locating the software for it
New Hardware Found
OLYMPUS Digital Camera
Windows is installing the software for your new hardware.

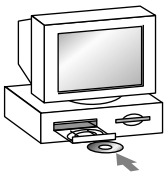
4. **The PC screen displays the window shown on the left.**
(If the driver software has been installed on the PC, the window does not appear.)

Add New Hardware Wizard
This wizard searches for new drivers for:
C-1Z, D-150Z
A device driver is a software program that makes a hardware device work.
Click
< Back
Next >
Cancel

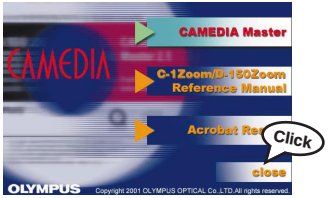
5. **Click "Next" in the window shown on the left.**
If the window is not displayed, go to step *12.* on Page 87.


Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Check
Display a list of all the drivers in a specific location, so you can select the driver you want.
Click
< Back
Next >
Cancel

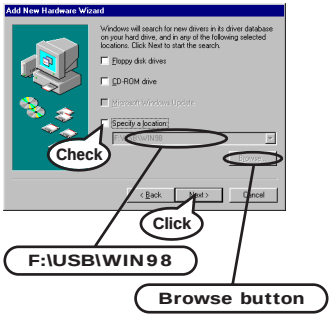
6. **Select “Search for the best driver for your device” in the window shown on the left, and then click “Next”.**



7. **Insert the provided Olympus CD-ROM into the PC.**



8. **If the window shown on the left is displayed automatically, press "close" to close it.**



9. **After selecting "Specify a location" in the window shown on the left, specify the "Win 98" folder in the CD-ROM and click "Next".**
If you don't know what drive the CD-ROM is set as, you can select it from the "Browse" button.

The figure shown on the left is displayed as is when the CD-ROM is set as the F drive. If your PC's CD-ROM is set otherwise, the drive will be displayed accordingly.

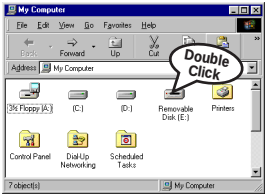
Add New Hardware Wizard
Windows driver file search for the device:
OLYMPUS Digital Camera
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
L:\USB\WIN98\OLCAMUDP.INF
< Back
Next >
Cancel
Click

10. **Click "Next" in the window shown on the left.**

11. **Click "Finish" in the window shown on the left.**

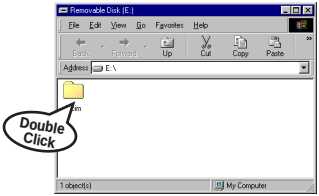
Note The above steps are required only when the camera is being connected to a PC for the first time. Skip to step *12.* on Page 87 from the next time.

12. **Open "My Computer" on the desktop of the PC.**

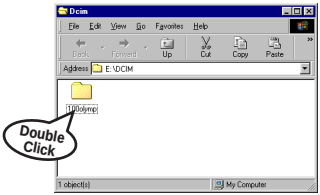


13. **Open "Removable Disk (E:)".**

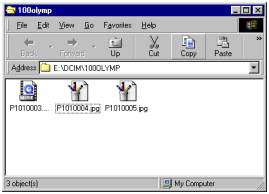
> **The figure shown on the left is displayed as is when the removable disk is set as the E drive. The camera may be assigned a different drive letter depending on what types of devices (MO disk drive, USB card reader/writer, etc.) are connected to your PC.**



14. **Open the "Dcim" folder.**



15. **Open "100olymp" folder.**



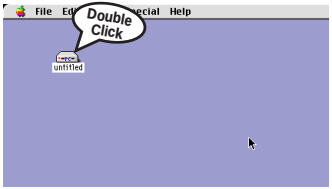
16. **Now you can view images (JPEG files).**

> **When images are only displayed, it does not mean they are saved. For how to save images, refer to the user's guide of your PC.**

*** For the procedure required before removing the card from the camera, refer to Page 89.**

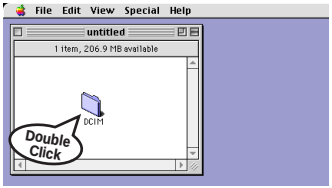
When using a Macintosh with OS 9

Make sure the camera is properly connected to your PC.

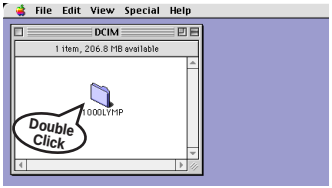


4. **The desktop of the PC shows an "untitled" icon.**

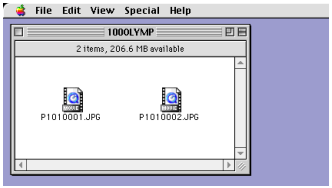
5. **Open "untitled".**



6. **Open the "DCIM" folder.**



7. **Open the "100OLYMP" folder.**



8. **Now you can view images (JPEG files).**

When images are only displayed, it does not mean they are saved. For how to save images, refer to the user's guide of your PC.

*** For the procedure required before removing the card from the camera, refer to Page 89.**

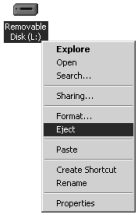
- Downloaded images can be viewed using Olympus CAMEDIA Master or other graphic software such as Paint Shop Pro or Photoshop, as well as Internet browsers such as Netscape Communicator and Microsoft Internet Explorer. For details, refer to your software user's manual.
- For the latest optional equipment, visit the Olympus website or see the latest brochures.
- Some application programs (including OS accessory program and separately purchased software) write information such as rotation etc. into the image file. If such programs write directly into the image files in the camera card, the files might be destroyed. Be sure to download the image files to your PC before you handle images.

Removing the card when the camera is connected to a PC via the USB cable

Be sure to remove the card from the camera following the procedure below that applies to your PC environment. If you remove the card or replace it with another card without performing this procedure, the data in the card could be destroyed. (Be especially careful when you are using Mac OS.) Should a malfunction occur, disconnect the USB cable and connect it again, or restart the computer to recover from the malfunction.

● With Windows 98 or Windows 2000

After opening "My Computer", right-click "Removable Disk" and select "Eject" from the pop-up menu. First make sure the orange lamp on the right of the viewfinder of the camera is not lit. Then open the card cover and remove the card from the camera.



● With Mac OS

Drag the drive icon on the desktop to "Trash", or select "Eject" from the "Special" pull-down menu. First make sure the orange lamp on the right of the viewfinder of the camera is not lit. Then open the card cover and remove the card from the camera.

TROUBLESHOOTING

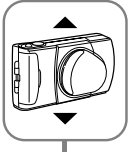
If you have a question related to a camera feature, you cannot obtain satisfactory images, or you think there is a malfunction, please refer to the page below that most closely corresponds with your question. Many problems with this camera can be solved easily without the help of Olympus service representatives.

- Simplified Operation Chart
- If an Alarm Message Is Displayed
- If an Operation Does Not Work
- If Image Quality Is Poor
- Frequently Asked Questions

Simplified Operation Chart

Refer to this chart whenever you're not sure what the correct operation sequence is. For detailed descriptions of each operation, page references are provided in this chart.

Open the lens barrier



Close the lens barrier

<Shooting mode>

- Press ▷ — Flash (P. 56)
- Press △ — Macro (P. 61)
- Slide the zoom lever — Optical zoom (P. 59); Digital zoom (P. 60)
- Press the OK/menu button <Shooting mode menu> — Flash (P. 56); Macro (P. 61); Drive [Normal/Sequential shooting/ Self-timer] (P. 62); Digital zoom [ON/OFF] (P. 60); Exposure compensation (P. 65); Image quality (P. 54); White balance (P. 67); Beep tones (P. 69); Date/time setting (P. 26); Monitor adjustment (P. 52)

For shooting images

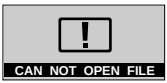
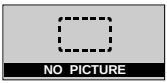
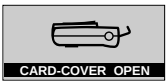
<Playback mode>

Press the monitor button

- Press ◁▷ — Single-frame playback (P. 42)
- Slide the zoom lever — Magnify/Index display (P. 44)
- Press the OK/menu button <Playback mode menu> — Single-frame erasure (P. 46); All-frame erasure (P. 47); Slide show (P. 48); Protection (P. 50); Monitor adjustment (P. 52); Print reservation (P. 76); Formatting (P. 24); Beep tones (P. 69); Date/time setting (P. 26)
- Using external devices — TV screen viewing (P. 73); Printing (P. 74); Downloading to PC (P. 79)

For viewing images

If an Alarm Message Is Displayed

Warning Monitor Display	Error Meaning	Treatment
Card absence	Card is not inserted or recognized.	Insert a card or, if it is already inserted, remove and insert it in the correct direction.
Card full	No more image can be shot because the number of shootable images have reached 0.	Replace the card or erase unnecessary images.
Write protect	The card is write-protected.	If you want to save images on the card, remove the write protect seal. (See the SmartMedia instructions.)
Card error	Shooting, playback and erasure are not possible.	Clean the card's connector with a piece of cleaning paper and format the card again. A card which cannot be formatted is unusable.
Playback error 	The image cannot be viewed.	The image file in use is not compatible with the camera. You cannot use images on a card taken by other manufacturers' camera and image data recorded by PC.
No image 	Playback is impossible.	You are trying to play back a card on which no images have been recorded.
Card cover 	The camera does not work properly.	Close the card cover until it clicks.

If an Operation Does Not Work

When the camera does not work properly		
Cause	**Remedy**	**See**
The camera power is off.	Open the lens barrier to turn the camera on.	P. 30
Batteries are inserted the wrong way.	Remove and insert correctly.	P. 19
The battery power is running out.	Replace the batteries with new ones.	P. 19
Battery performance has dropped temporarily due to cold.	Warm the batteries by putting them in your pocket before retrying operation.	P. 19
The camera turned off automatically.	Close the lens barrier and then open it again.	P. 30
The camera is connected to a PC.	Camera operation is not possible while the camera is connected to a PC.	—
Dew condensation has occurred inside the camera.	Let the camera dry spontaneously without turning it on. Once it is completely dry, turn it on.	—

When the flash does not emit light		
Cause	**Remedy**	**See**
The subject is too bright.	If you want to use the flash, set the Flash mode to the Fill-In Flash mode.	P. 57
The Sequential Shooting mode is engaged.	The flash cannot be used in the Sequential Shooting mode.	—

When the monitor is not clearly visible		
Cause	**Remedy**	**See**
The monitor brightness is set improperly.	Adjust the brightness of the monitor.	P. 52
You are watching the monitor under sunlight.	Shade the sunlight with your hand, etc.	—

When pressing the shutter button, the camera does not take a picture

Cause	Remedy	See
The flash is not fully recharged or you pressed the shutter button while the camera is still processing the last shot.	Remove your finger from the shutter button and press it again when the orange lamp has stopped blinking.	P. 37
There is a problem with the card.	Check the error message.	P. 93
The card is full.	Replace the card, erase unnecessary image frames or download images to a PC, and then erase all image frames in the card.	P. 46 P. 47 P. 84
The battery power has run out during shooting or card writing.	Replace the batteries with new ones.	P. 19
The remaining battery power is low.	Replace the batteries. (If the orange lamp is blinking to indicate that data is being written in the card, wait until the blinking stops.)	P. 19
A write protect seal is attached to the card or no card is inserted in the camera.	Insert a new card or remove the write protect seal.	P. 22 P. 24
The camera is in the Playback mode.	Open the lens barrier.	P. 30
The last-shot is being written to the card. (The orange lamp blinks.)	Remove your finger from the shutter button, and then wait until the orange lamp goes out before retrying shooting.	P. 37
The subject is too close.	Set the camera to the Macro mode, and then press the shutter button again. If the subject is closer than 0.2m/8 in., the shutter will not click.	P. 61

When the monitor cannot display images

Cause	Remedy	See
The camera is in the Shooting mode.	Close the lens barrier and press the monitor button so that the monitor turns on and displays an image.	P. 42
No image has been saved on the card in use.	The display shows message “NO PICTURE”. Note that playback is possible only after images are shot.	P. 42 P. 93
The digital camera is connected to a TV.	The monitor turns off while the camera is connected to a PC.	P. 73
There is a problem with the card.	Check the error message.	P. 93

When image protection, single-frame erasure, all-frame erasure or formatting is impossible

Cause	Remedy	See
A write protect seal is attached to the card.	Remove the seal. Note that the removed seal should not be reused.	P. 25

When an error message is displayed during data downloading to the connected PC

Cause	Remedy	See
The cable is not connected properly.	Check that it is connected properly.	P. 84
The camera is off.	Press the monitor button to turn the camera on.	P. 30
The battery power is low.	It is recommended to use the AC adapter (optional) when the digital camera is connected to a PC.	P. 72
The USB driver is installed incorrectly in your PC.	Observe instructions given in the installation manual of the USB driver and make sure that the camera is recognized by your PC.	—

If Image Quality Is Poor

When the image is too bright		
Cause	**Remedy**	**See**
The Flash mode is set to the Fill-in Flash mode.	Close the lens barrier to restore the Auto-Flash mode, or select the Flash Off mode.	P. 57
The subject was too brightly illuminated.	Correct the exposure (in [–] direction) or shoot the subject from a different angle or point the camera in a different direction and lock the exposure.	P. 65

When the image is too dark		
Cause	**Remedy**	**See**
You blocked the flash with your finger, etc.	Hold the camera correctly, taking care not to cover the flash surface.	P. 28
The subject was out of reach of the flash.	Shoot the subject from a distance of less than about 3.5 m/11.5 ft.	P. 56
You shot a dark subject against back light.	Set the Flash mode to the Fill-In Flash mode.	P. 57

When the colors in an image shot indoors are abnormal		
Cause	**Remedy**	**See**
The image color tone is affected by the illumination light.	Set the Flash mode to the Fill-In Flash mode.	P. 57
The subject does not contain any white.	Shoot the subject with something white in the field of view or set the white balance control according to the current lighting condition.	P. 67
The white balance control setting is wrong.	Set the white balance control according to the lighting condition.	P. 67

When part of image is cut off		
Cause	**Remedy**	**See**
The lens was blocked by your finger or the strap.	Hold the camera correctly, taking care not to cover the lens.	P. 28
The subject shooting distance was too close.	Shoot the image by using the monitor.	P. 34

When the image is out of focus		
Cause	**Remedy**	**See**
The camera moved at the moment you pressed the shutter button (camera shake).	Hold the camera correctly and press the shutter button gently.	P. 28
The AF target mark was not placed exactly on the subject.	Bring the subject to be focused on the center of the screen or use the Focus Lock mode.	P. 40
The lens is dirty.	Use a commercially available lens blower to get rid of the dust on the lens, and then wipe the lens gently with lens cleaning paper.	—
The Macro mode was used improperly.	Use the Macro mode only when the working distance is between 0.2 m/8 in. and 0.5 m/1.6 ft. In other case, use the Normal mode.	P. 61
In self-timer shooting, you pressed the shutter button while in front of the camera.	Do not stand in front of the camera. Press the shutter button while using the viewfinder.	P. 62
The Flash mode was set to the Flash Off mode in a low light condition where the flash is required.	Since shutter speed decreases and exposure time increases in this mode, use a tripod or hold the camera securely.	P. 58

Frequently Asked Questions

Q How can I maximize the battery life?

A Actual battery life is variable depending on the operating hours of the monitor, operating frequency of the flash, type of battery and temperature of the operating environment. As battery power consumption is particularly high when the monitor is on, it is recommended to turn the monitor off whenever possible. You do not have to worry about battery life if you use the optional AC adapter.

Q What do I do if the date saved with the pictured data is not correct?

A The date is not set at the factory. You must set the date yourself before shooting images (☞ Page 26). Note that the date and time settings are cleared when the camera is left for about 1 hour without batteries.

Q Can a filter or hood be attached to the camera?

A No.

Q Can an external flash be attached to the camera?

A No.

Q Why do the eyes look red when they are shot under flash light?

A With any kind of compact camera, eyes tend to look red when the flash is used. This is because the retinas reflect the flash light. The occurrence frequency of this phenomenon is variable depending on individuals and the shooting conditions such as the surrounding light. In general, this phenomenon tends to occur more frequently with bright-eyed people than with dark-eyed people. The occurrence frequency can be reduced considerably by setting the Flash mode to the Red-Eye Reduction Flash mode (☞ Page 57).

Q How should the camera be stored?

A Keep the camera away from dust, moisture and salt. Wipe the camera well and dry it spontaneously before storage. When the camera has been used at a beach, moisten a cloth in fresh water, ring the cloth well and wipe the camera with it. Do not use moth repellent when storing the camera. Be sure to remove the batteries when the camera is not to be used for a long period of time.*

* Calendar date and time selection will be reset in about 1 hour.

Q Can the camera be connected to any PC?

A It can be connected to most recent PC models equipped with a USB port. It can also be connected to Windows (PC/AT-compatible) and Macintosh machines or notebook machines. However, USB is supported differently depending on the operating system of your PC. For details, see Page 80.

Q What is USB?

A USB stands for Universal Serial Bus. It is a new means of connection allowing data transfer to a PC. It is convenient because you do not have to turn the camera and PC off before connecting the USB cable. If your PC has a rectangular connector marked ⇜ , measuring about 6 x 15 mm/0.24 x 0.6 in., it is the USB port.

Q What kind of software is required to retouch images or insert them in documents on the PC?

A If your PC runs Windows, retouching is possible using the Windows Photo Editor provided with Microsoft Office. For advanced retouching, Adobe Photoshop is available.

Also note that images can be inserted directly in documents when these are created using word processing software such as Microsoft Word. For details, see the instructions of the software you use.

SPECIFICATIONS GLOSSARY OF TERMS

- Specifications
- Glossary of Terms

Specifications

Type	:	Digital camera (record/play type)
Recording system	:	Digital recording, JPEG (DCF-compliant)/DPOF-compatible
Recording medium	:	3 V (3.3 V) SmartMedia 4 MB, 8 MB, 16 MB, 32 MB, 64 MB and 128 MB
Number of shootable frames	:	Approx. 8 (SHQ mode, 8 MB card) Approx. 24 (HQ mode, 8 MB card) Approx. 82 (SQ mode, 8 MB card)
Erasure	:	Single-frame erasure, all-frame erasure
Image pickup device	:	1/3.2-inch CCD solid-state image pickup device, 1.31 million pixels (total)
No. of recording pixels	:	1280 x 960 pixels (SHQ and HQ modes) 640 x 480 pixels (SQ mode)
White balance control	:	Full-auto TTL, presets (Clear Sky, Cloudy Sky, Incandescent Lamp and Fluorescent Lamp)
Lens	:	Olympus lens, 5 mm to 15 mm, F2.4 (W)/4.3(T), 8 elements in 7 groups (equivalent to 38 mm to 114 mm lens with 35 mm camera)
Photometric system	:	Digital ESP metering using image pickup device
Exposure control system	:	Programmed auto exposure
Aperture settings	:	F2.4/F5, F4.3/F9
Shutter speed*	:	1/2 to 1/1000 sec. (in combination with the mechanical shutter) *Manual setting is not available.
Sequential shooting	:	2 frames/sec., Max. 4 frames
Shooting distance	:	0.5 m/1.6 ft. to ∞ (Normal mode), 0.2 m to 0.5 m/8 in. to 1.6 ft. (Macro mode)
Viewfinder	:	Optical, real-image viewfinder (with AF target) and LCD monitor
Monitor	:	1.5-inch, TFT color LCD monitor
No. of monitor screen pixels	:	Approx. 118,000 pixels
On-screen display	:	Date/time, frame number, protection, Record mode, remaining battery power, file number, print reservation, menus, etc.
Flash recharging time	:	Approx. 10 sec. or less (at normal temperature, new batteries)
Flash working range	:	Approx. 0.2 m to 3.5 m/8 in. to 11.5 ft. (Wide-angle)

Flash modes	:	Auto-Flash (automatic flash activation in low light and back light), Red-Eye Reduction Flash, Flash-Off, Fill-In Flash and Night Scene
Autofocus	:	TTL system autofocus, contrast detection/focusing range from 0.2 m/8 in. to ∞
Self-timer	:	Operating time approx. 12 sec.
External connectors	:	DC-IN connector, data input/output connector (USB), video output jack (NTSC mainly for North America or PAL mainly for Europe)
Date/time	:	Simultaneous recording in image data
Auto calendar	:	Automatic correction in range of 2001 to 2031
Calendar power supply	:	Backed up by a built-in capacitor (Date and time data lost when batteries are removed for over 30 minutes.)
Card function	:	DPOF print reservation
Operating environment		
Temperature	:	0 to 40°C/32 to 104°F (operating)/ –20 to 60°C/-4 to 140 °F (storage)
Humidity	:	30% to 90% (operating)/ 10% to 90% (storage)
Power supply	:	One CR-V3 lithium battery pack, two NiMH batteries or NiCd batteries, or two R6/AA alkaline batteries(*), or optional AC adapter. Zinc-carbon (manganese) batteries and commercially available R6/AA lithium batteries cannot be used. * Alkaline batteries have a lot of variation in their performance and deteriorate particularly in low temperatures. It is recommended that lithium battery packs or NiMH batteries be used.
Dimensions	:	112(W) x 62(H) x 35(D) mm/4.4(W) x 2.4(H) x 1.4(D) in. (excluding projections)
Weight	:	Approx. 185 g/6.5 oz. (excluding batteries and card)

Design and specifications are subject to change without any notice or obligation on the part of the manufacturer.

Glossary of Terms

A		
AC adapter	Used to power the digital camera from a household AC power. The use of this product is especially recommended when the camera is to be used for an extended period of time such as when it is connected to a PC.	P. 72
All-frame erasure	Simultaneous erasure of all of the images saved on a card.	P. 47
Auto-Flash	In this Flash mode, the flash is activated automatically under low light.	P. 57

B		
Back light	Condition in which a strong light is behind the subject.	P. 57
Beep tone	Sound generated when the shutter is released or when a warning is displayed.	P. 69

C		
Card	This refers to SmartMedia for saving images.	P. 22
Card print reservation	This feature makes it possible to specify images to be printed from a card and the number of copies of each image.	P. 76

D		
Digital ESP	Photometric system which determines the exposure automatically based on digital processing.	—
Digital zoom	Feature for zooming in on the subject. Magnification method by extracting and recording the center of an image. The resolution is coarser than the optical zoom.	P. 60
DPOF	Digital Print Order Format, a common recording system used in printing images in a photo lab, etc.	P. 74

E		
Error message	Displayed when there is an error in operation.	P. 93
Exposure compensation	This feature makes it possible to brighten or darken the images by varying the camera's exposure.	P. 65

F		
Fill-In Flash	In this Flash mode, the flash fires every time an image is shot regardless of available light.	P. 57
Flash Off	This Flash mode disables automatic flash when the camera is used in a museum where flash is not permitted or in a stadium where the flash light cannot reach the subject.	P. 58
Focus lock	When the shutter button is half-pressed and held, the focus is locked and maintained even if you point the camera in another direction. This feature is useful when the subject is not located at the center of the image.	P. 40
Formatting	Action of making a card usable with this camera. Note that formatting erases all of the images previously saved in the card, if there are any.	P. 24
Frame numbers	Numbers assigned to the images in order they are saved.	P. 44

H		
Half-press	Action of pressing the shutter button halfway. In this condition, the exposure and focus are adjusted and locked. Pressing the button further releases the shutter.	P. 32

M		
Macro mode	This mode is useful when shooting subjects at close distances. When you shoot at a distance of 0.5 m/1.6 ft. or less, use the Macro mode.	P. 61
Monitor	LCD panel provided on the rear of the camera. It can be used to view saved images and as a viewfinder for shooting. It also displays the camera menus for use in setting operations.	P. 38
Monitor adjustment	Adjustment of the brightness of the monitor.	P. 52

N		
Night Scene	This Flash mode fires the flash and then allows the shutter to remain open for a long duration. It allows you to shoot both the subject in the foreground and expose the night scene in the background.	P. 58
Number of shootable images	The number of remaining images you can shoot is displayed on the monitor. This is variable depending on the card type and Record mode in use.	P. 23

O		
Optical zoom	Feature for zooming in on the subject. Magnification method by changing the focal distance within a certain range. The resolution of the original image will be maintained.	P. 59

P		
Playback mode menu	A menu providing a variety of features to be selected for viewing the shot images.	P. 92
Protection	Setting to prevent accidental erasure of image data saved on a card.	P. 50

R		
Record mode	Three types of Record modes can be selected according to the desired image resolution. When the Record mode is set for higher image quality, the image file size increases and the number of shootable images per card decreases. The SQ (Standard Quality) mode is good for images that will be attached to e-mail while the SHQ (Super-High Quality) mode is best for images that will be printed out at a large size or retouched on a PC.	P. 54
Red-Eye Reduction Flash	This Flash mode reduces the phenomenon which makes eyes look red in images shot with a flash.	P. 57

S		
Self-timer	This Shooting mode releases the shutter approx. 12 sec. after shutter button is pressed.	P. 62
Sequential Shooting	A drive mode that allows you to shoot up to four images (2 images per second) successively while you press and hold the shutter button.	P. 63
Shooting mode menu	A menu providing a variety of features to be selected for shooting.	P. 92
Single-frame erasure	Action of erasing recorded images one by one.	P. 46
Slide Show	This function displays multiple images one after another in sequence when in the Playback mode.	P. 48
SmartMedia	A type of memory card to be used to store photographs taken with a digital camera.	P. 22
Software	Application programs used by a PC.	—

U		
USB cable	A cable allowing easy connection between the camera and PC.	P. 80

W		
White balance control	Adjustment of the color tone of image so that the colors look natural. The camera has been set to auto White Balance Control mode at the factory, but you can change the setting as desired.	P. 67

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